

# SANYO

FILE NO.

## SERVICE MANUAL      Multi-media Projector

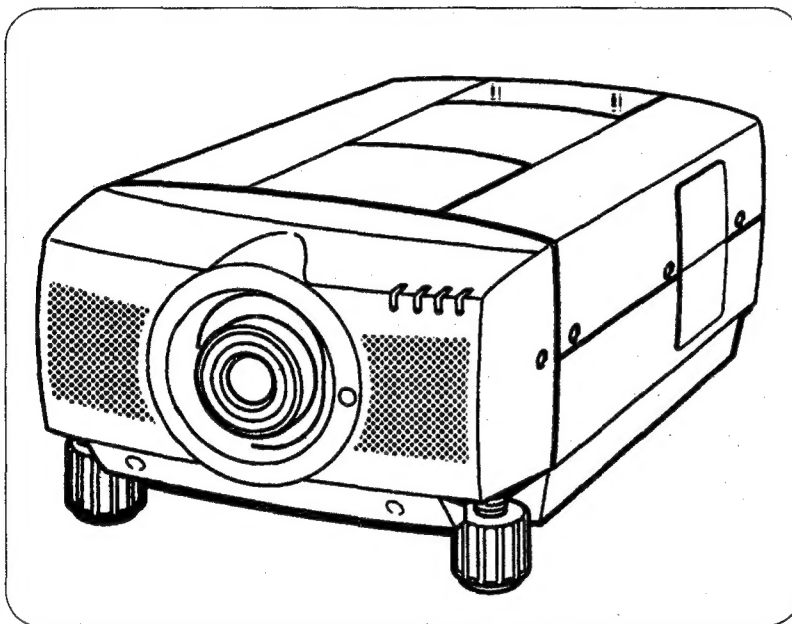
**REVISED**

Model no.

**PLC-9000**  
(NO-TAX)

**PLC-9000E**  
**PLC-9005E**  
(Europe, Asia, Africa, M.E.)

**PLC-9005B**  
(U.K.)



**ORIGINAL VERSION**

Service	PLC-9000-00
Ref.No.	PLC-9000E-00
	PLC-9005E-00
	PLC-9005B-00

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#### PRODUCT CODE

P6MZ (PLC-9000) ; 1122 043 19  
P6MA (PLC-9000E) ; 1122 043 00  
P6MAV (PLC-9005E) ; 1122 043 60  
P6MCV (PLC-9005B) ; 1122 043 62

REFERENCE NO. **SM525052**

# TECHNICAL SPECIFICATIONS

## SPECIFICATIONS

NOTE ; ※ PLC-9005E/9005B OPTION

Projector Type	Multi-media Projector
Dimensions (W x H x D)	390 mm × 234 mm × 582 mm
Net Weight	17 kg
LCD Panel System	1.8" TFT Active Matrix type (Thin Film Transistor) × 3
Number of Pixels	2,359,296 {786,432 (1,024 × 768) × 3}
※ Colour System	6 colour system (PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N)
Scanning Frequency	H-sync. 15 ~ 80 KHz, V-sync. 50 ~ 100 Hz
Projection Image Size (Diagonal)	Adjustable from 30" to 600"
Contrast Ratio	100 :1 (ANSI)
Horizontal Resolution	800 TV lines
Projection Lens	F2.6 ~ 3.5 lens with f67.3mm ~ 107.6mm Motor zoom and focus
Motorized Lens Shift	± 760 mm on 100" screen
Throw Distance	1.1 m ~ 22.3 m
Projection Lamp	Metal Halide, 400 watt type
Projection Mirror	Dichroic mirror and X-prism system
※ AV Input jacks	BNC Type {Video/Y, C/Cb (B-Y), Cr (R-Y)} × 2 set, Phono Type (Audio R and L) × 2 set and DIN 4 pin (S-Video) × 2 set
※ Video Monitor Output Jack	BNC Type {Video/Y, C/Cb (B-Y), Cr (R-Y)} × 1 set and DIN 4 pin (S-Video) × 1 set
※ Audio Monitor Output Jacks	Phono Type (R and L) × 1 set
Computer Input 1 Jack	BNC Type (R, G, B, H and V), Multi-pole 12 pin (Control port) and USB port
Computer Input 2 Jack	(VGA) HDB15 Terminal, Multi-pole 12 pin (Control port) and USB port
Computer Audio Input Jack	Phono Type (R and L) × 2 set
Computer Output Jack	(VGA) HDB15 Terminal
Computer Audio Output Jack	Phono Type (R and L) × 1 set
Other Jack	Wired Remote Jack and Serial port (DB 9)
Built-In Speaker	INT. SP. Stereo (R and L), 3 watt RMS (T.H.D. 10%)
Image Elevation Adjustment	Up to 4°
Voltage	200 ~ 240V AC, 50/60 Hz (Model PLC-9000E/9005E/9005B) 110 ~ 120V AC, 50/60 Hz (Model PLC-9000 )
Power Consumption	3.5A (Max. Ampere) (Model PLC-9000E/9005E/9005B) 7.0A (Max. Ampere) Model PLC-9000
Operating Temperature	5 °C ~ 35 °C
Storage Temperature	- 10 °C ~ 60 °C
Remote Control Battery	(2) AA, UM3 or R06 Type × 2 set



## Notice

- ☐ CORRECTION      ☒ **PRODUCTION CHANGE**  
☐ SERVICE FLASH      ☐ ADD INFORMATION

FILE NO.

Revision 1

Please add this notice to the Service Manuals listed below.

Category : Multi-media Projector

Date : Aug. / 31 /1998

Model                      Destination  
PLC-9000                  NO-TAX  
PLC-9000E                Europe,Asia,Africa,M.E.  
PLC-9005E                Europe,Asia,Africa,M.E.  
PLC-9005B                U.K.

Effective From: Service Ref. No.

REF : No. SM525052

PLC-9000-01  
PLC-9000E-01  
PLC-9005E-01  
PLC-9005B-01

**NOTE:** Match the Service Ref. No. on the unit's back cover with the Service Ref. No. in the Service Manual.

**If the Service Manual Service Ref. No. does not match the unit's,** additional Service Literature is required. This chassis is similar to the Service Ref. NO. PLC-9000-00/9000E-00/9005E-00/9005B-00. Only the Difference Service Information is given in this manual. For detail Service Informations, Refer to the Original Service Manual and Notices for Service Ref. NO. PLC-9000-00/9000E-00/9005E-00/9005B-00 used in Model PLC-9000/9000E/9005E/9005B (SM525052)

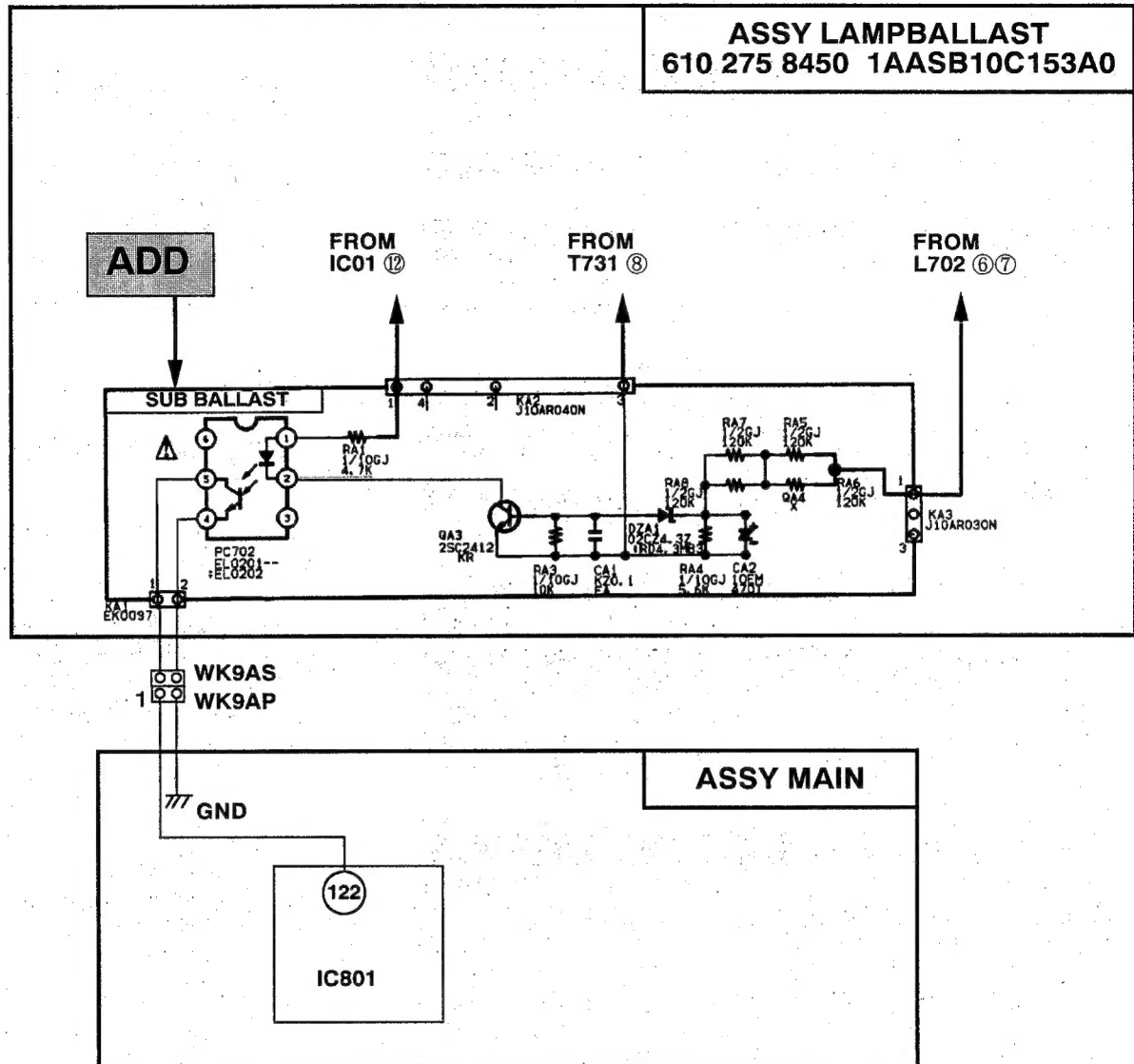
## DIFFERENCES

Page & Section	SM525052 Service Ref. NO. PLC-9000-00/9000E-00/9005E-00/9005B-00		SM525052-01 Service Ref. NO. PLC-9000-01/9000E-01/9005E-01/9005B-01	
	Part No.	Description	Part No.	Description
SM525052 Page 76 Electrical Parts List	610 273 5987	ASSY MAIN P6MA 1AA0B10C1750A	610 275 6517	ASSY MAIN M6MA 1AA0B10C175DA
SM525052 Page 76 Electrical Parts List IC801	410 313 1609	HD64F7045F28-B217-S	410 324 4507	HD64F7045F28-B217A-S
	or 410 309 9602	HD64F7045F28-B217	or 410 324 4606	HD64F7045F28-B217A
SM525052 Page 87 Electrical Parts List	610 272 5889	ASSY LAMPBALLAST 1AASB10C15300	610 275 8450	ASSY LAMPBALLAST 1AASB10C153A0

Prod. Code : 1 122 043 19 P6MZ  
                  1 122 043 00 P6MA  
                  1 122 043 60 P6MAV  
                  1 122 043 62 P6MCV

REFERENCE No. SM525052-01

# SCHEMATIC DIAGRAM DIFFERENCES



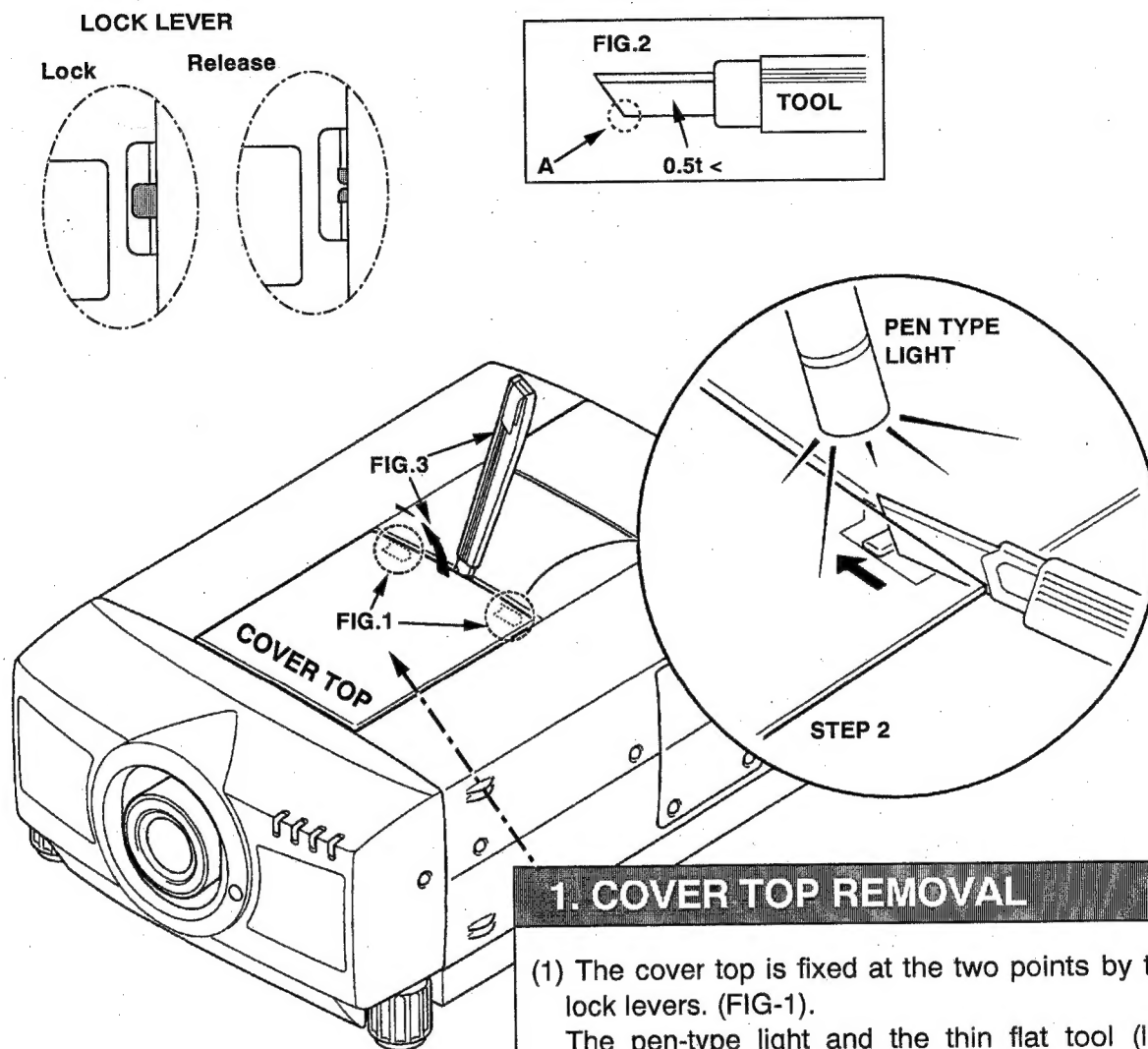
# SANYO

SANYO Electric Co., Ltd.  
Printed in Japan



● (NOTE: Each shape will be changed by the performance improvement.)

## MECHANICAL DISASSEMBLIES



### 1. COVER TOP REMOVAL

- (1) The cover top is fixed at the two points by the lock levers. (FIG-1).  
The pen-type light and the thin flat tool (like cutter knife) will be used in order to release the lock.
- (2) Confirm the position of the lock lever with the pen-type light.  
Release the lock lever by sliding it laterally by using at the A part (FIG-2) of the tool.
- (3) Release the other lock lever in the same way.
- (4) Lift the cover top to the upward by the tool as shown in the FIG-3.
- (5) After lifting it, hold the cover top and pull it to the backward.

#### CAUTION:

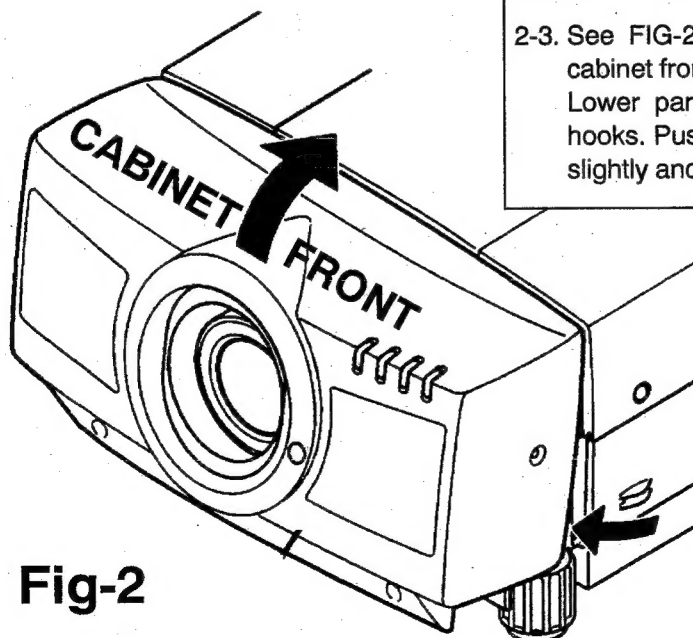
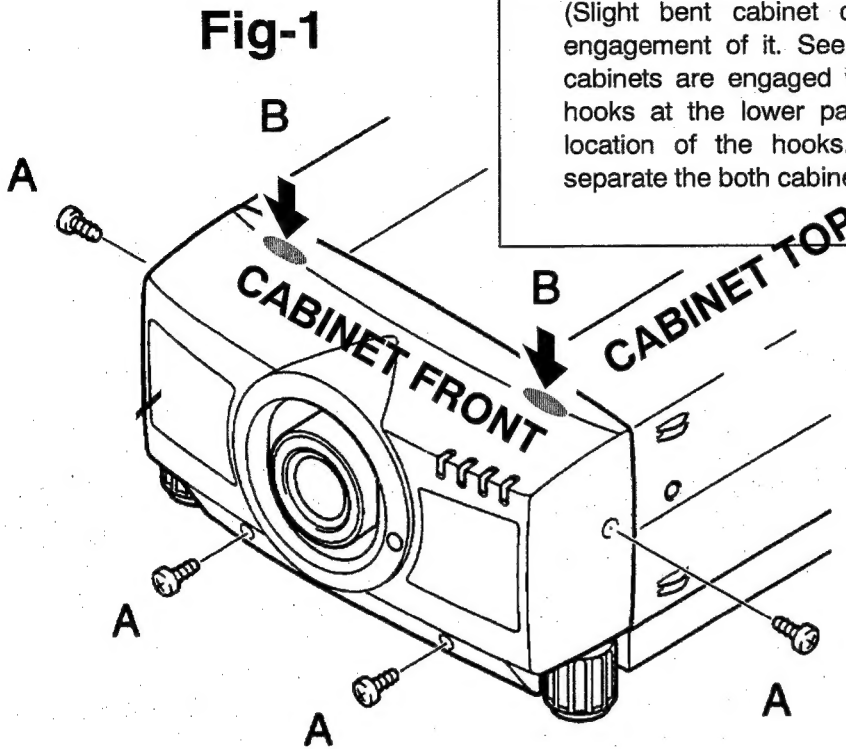
Be careful not to damage the cabinet finish when removing it.

**2. CABINET FRONT REMOVAL**

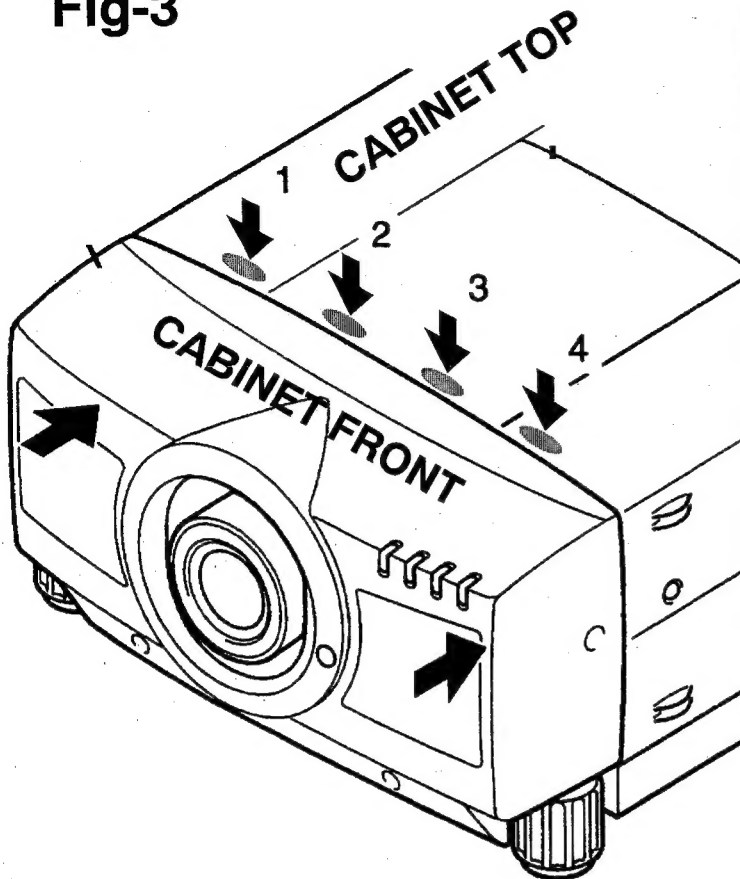
2-1. Remove screws A (4 screws) on the cabinet front.

See FIG-1.

2-2. Push down the part B of the cabinet front by finger (Slight bent cabinet downward ) and remove the engagement of it. See FIG-1. The front and the top cabinets are engaged with 4 hooks at the top and 3 hooks at the lower part. See FIG-4 (next page) for location of the hooks. Release those hooks when separate the both cabinets.

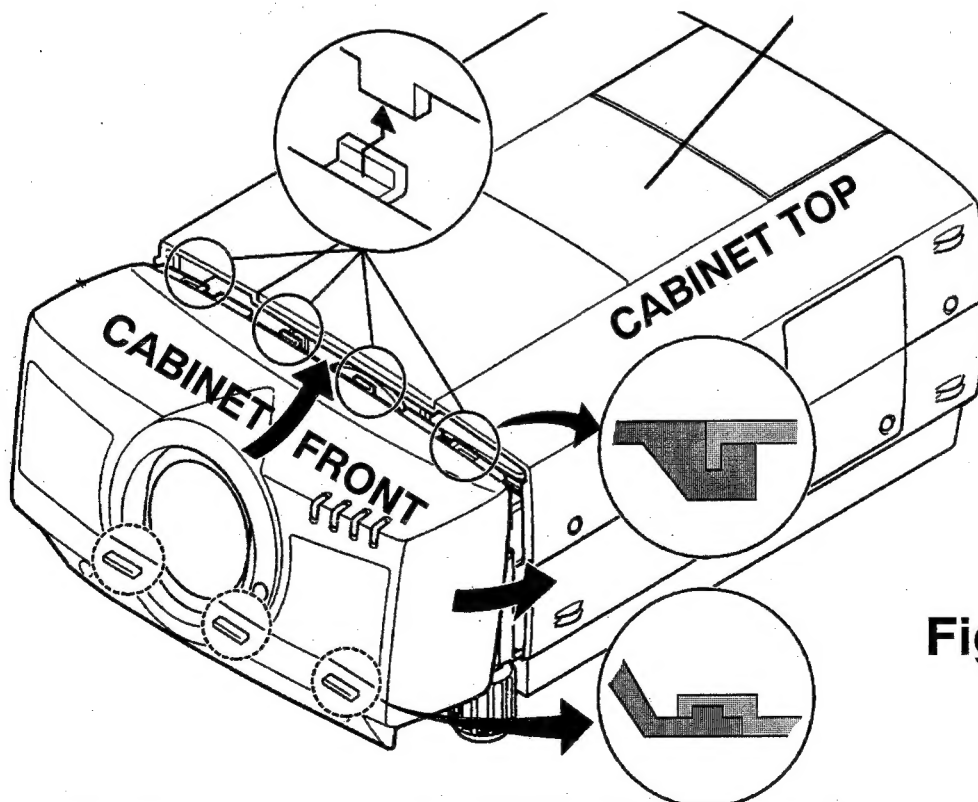


2-3. See FIG-2. Pull the lower side of the cabinet front forward and remove it. Lower part is engaged with the three hooks. Push the cabinet front downward slightly and pull the lower forward.

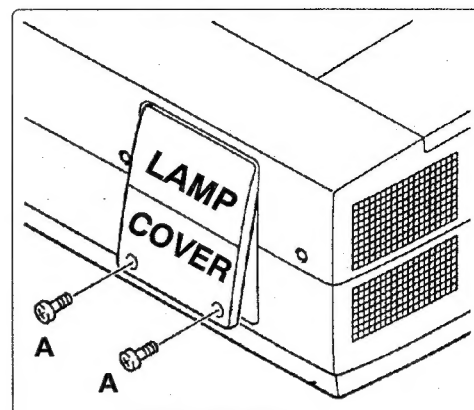
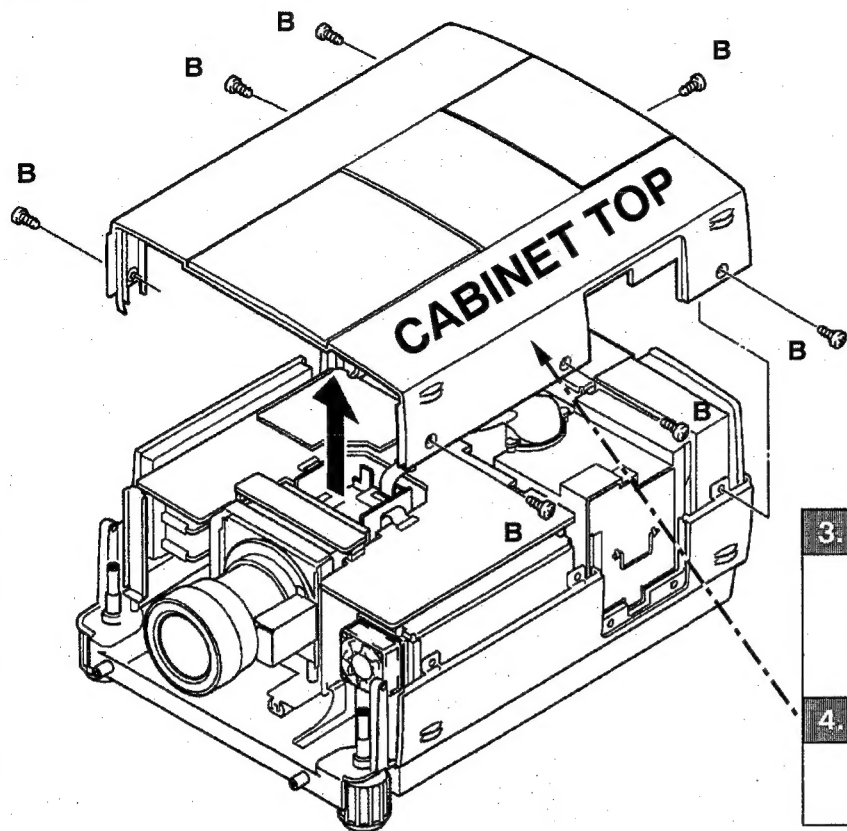
**Fig-3**

**NOTE ;  
MOUNT THE CABINET FRONT**

- Front and top cabinets are engaged with 4 hooks at the upper side and 3 hooks at lower side. See Fig-4. First engage the upper side at each end of the cabinet front with the cabinet top . Then, push the lower of the cabinet in the direction of the arrow and engage the lower part of cabinet front with the lower part of cabinet top. See Fig-4.
- It is not enough to engage the upper side of the cabinet front with the upper side of the top cabinet . Follow the next steps for engaging them completely.
- See Fig-3. Slightly push the cabinet front backward and pushing arrow points of the cabinet top until each hooks are fitted. Push the arrow point in the order of the number. Space should not be obtained between the cabinet front and the cabinet top. Engage both cabinets until no space observed between both cabinets.

**Fig-4**

## DISASSEMBLIES AND REPLACEMENT PROCEDURES

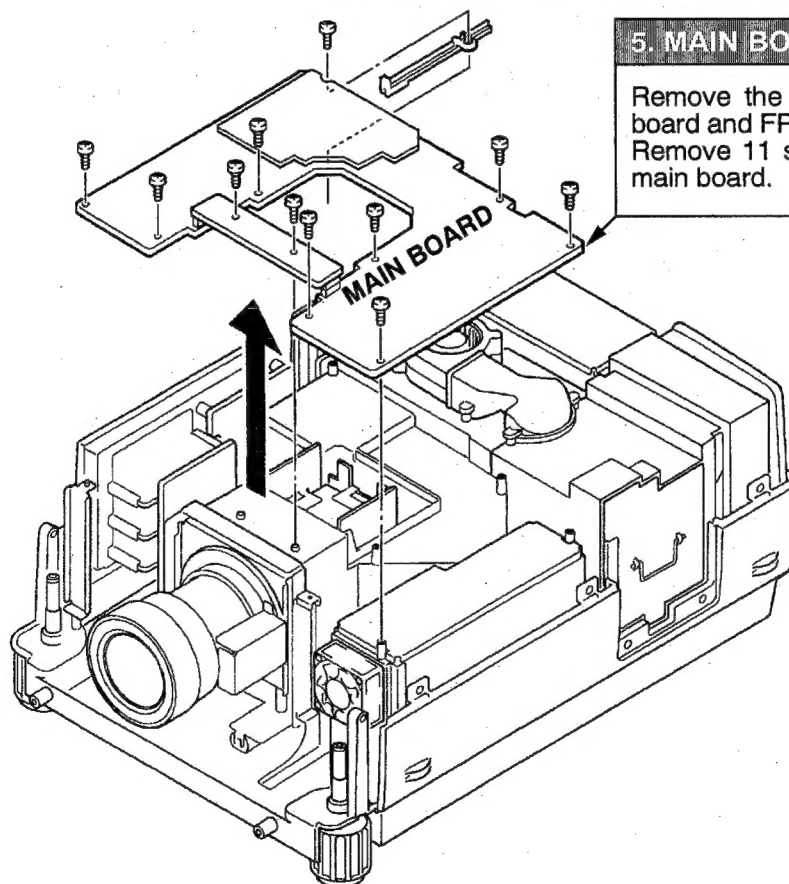


### 3. LAMP COVER REMOVAL

Remove screws A (2 used) and remove the lamp cover by pulling the lower part of it.

### 4. CABINET TOP REMOVAL

Remove B screws (7 used) and remove the cabinet top



### 5. MAIN BOARD REMOVAL

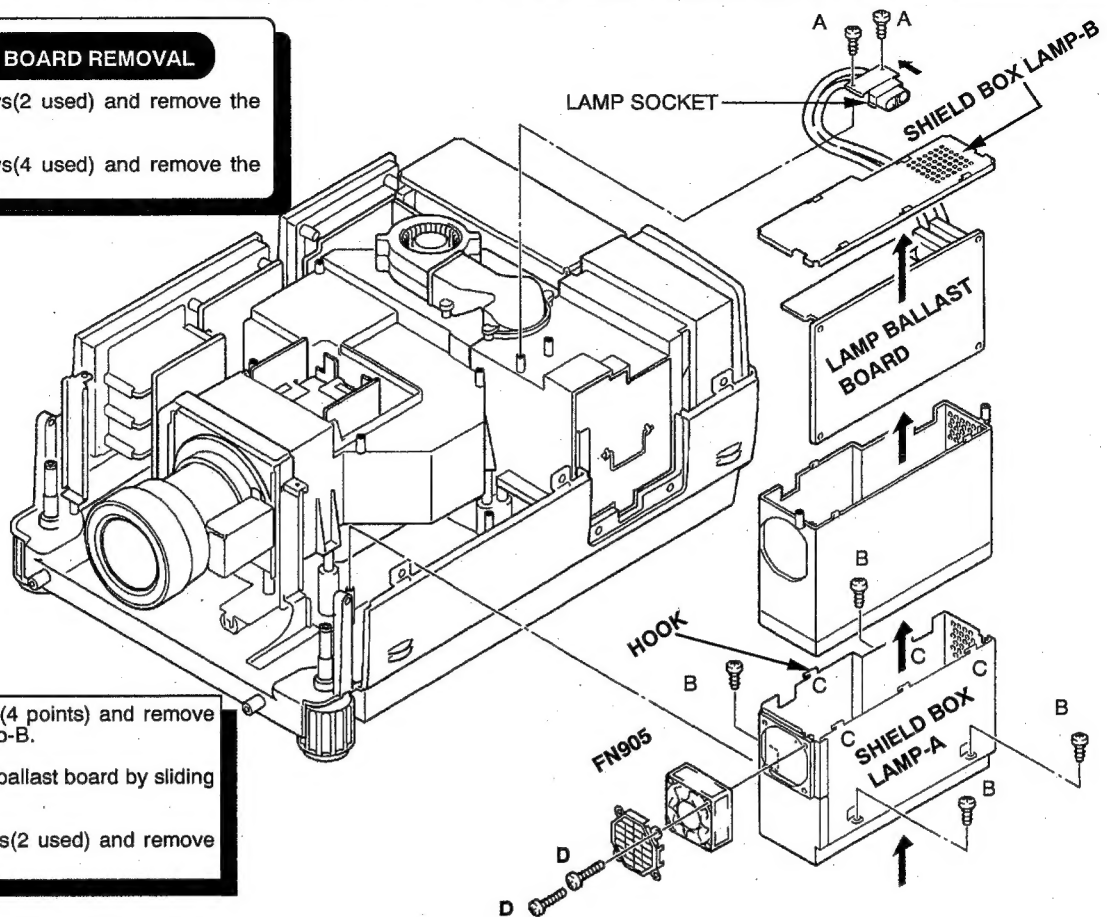
Remove the connector to the main board and FPC. Remove 11 screws and remove the main board.

## DISASSEMBLIES AND REPLACEMENT PROCEDURES

### 6. LAMP BALLAST BOARD REMOVAL

- (1) Remove A screws(2 used) and remove the lamp socket.
- (2) Remove B screws(4 used) and remove the shield box lamp-A.

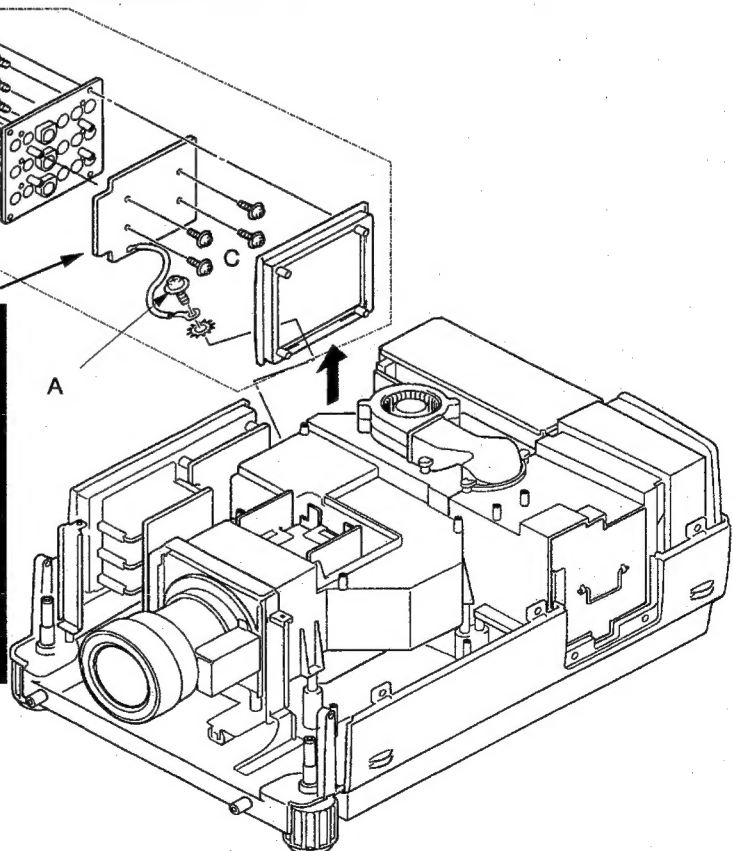
- (3) Release C hooks(4 points) and remove the shield box lamp-B.
- (4) Pull out the lamp ballast board by sliding it to the upward.
- (5) Remove D screws(2 used) and remove the FAN(FN905).



ASS'Y PANEL AV

### 7. AV BOARD REMOVAL

- (1) Remove the Assy panel AV by sliding it upward.
- (2) Remove an A screw and remove the ground wire.  
(NOTE: For keep the performance, Attach the ground wire as the washer must be under the wire.)
- (3) Remove B screws(10 used) and C screws(4 used), then remove the AV board.



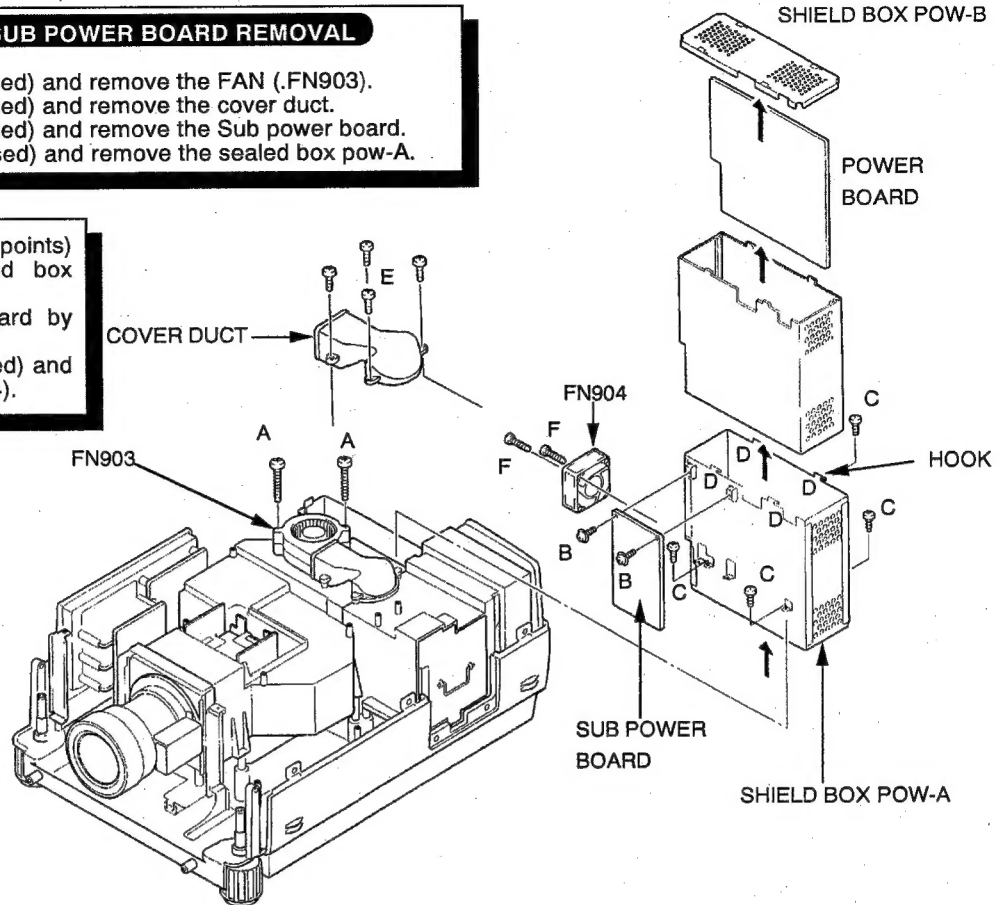


## DISASSEMBLIES AND REPLACEMENT PROCEDURES

### 8. POWER AND THE SUB POWER BOARD REMOVAL

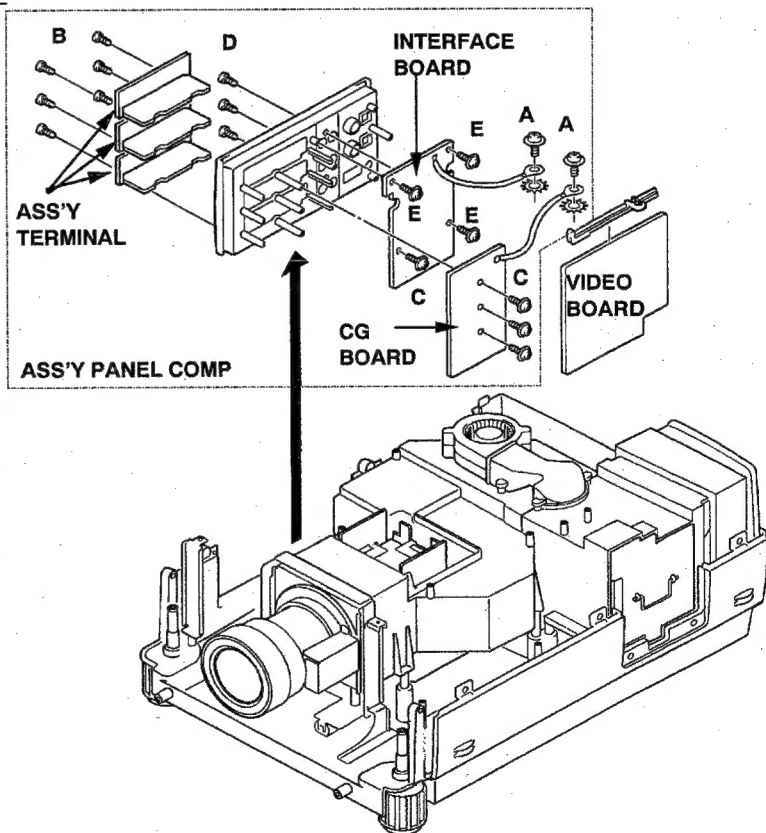
- (1) Remove A screws(2 used) and remove the FAN (FN903).
- (2) Remove E screws(4 used) and remove the cover duct.
- (3) Remove B screws(2 used) and remove the Sub power board.
- (4) Remove C screws(4 used) and remove the sealed box pow-A.

- (5) Release the hooks D (4 points) and remove the shield box pow-B.
- (6) Pull out the power board by sliding it to the upward.
- (7) Remove F screws(2 used) and remove the FAN (FN904).



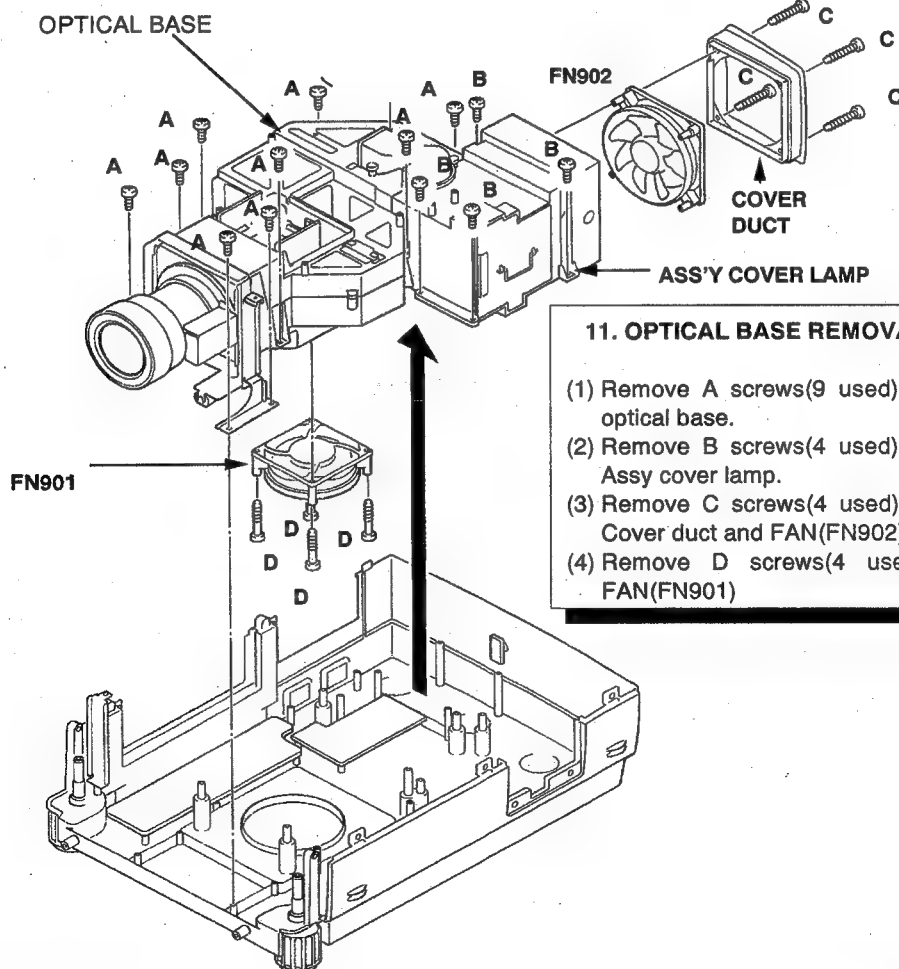
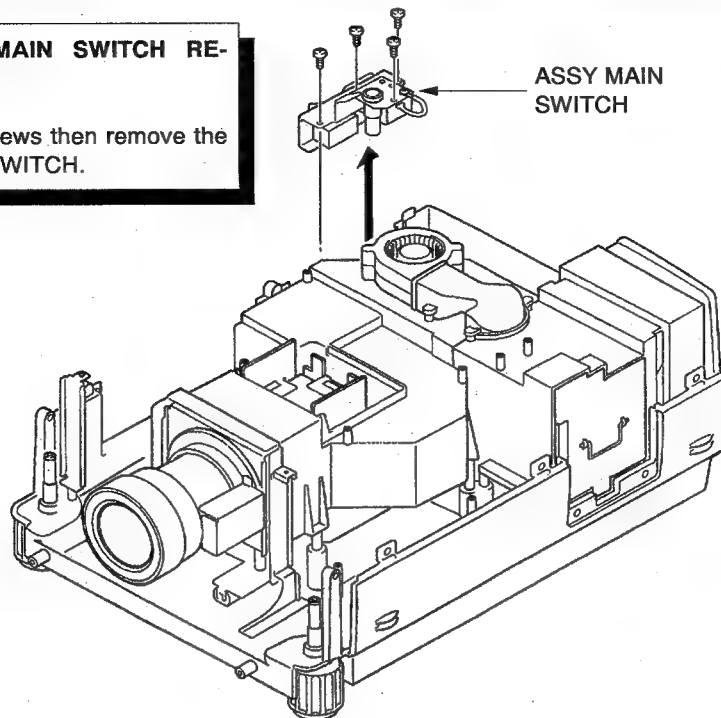
### 9. VIDEO, INTERFACE AND CG BOARD REMOVAL

- (1) Remove A screws(2 used) and remove the ground wire.  
(NOTE: For keeping the performance, attach the ground wire as the washer must be under the wire.)
- (2) Pull out the Assy panel comp and the Video board together by sliding upward.
- (3) Remove B screws(6 used) and remove 3 pairs of assy, terminal.
- (4) Remove C screws(3 used) and remove CG board.
- (5) Remove D screws(3 used) and the E screws(4 used), then remove the Interface board.



### 10. ASSY MAIN SWITCH REMOVAL

Remove 4 screws then remove the ASSY MAIN SWITCH.



### 11. OPTICAL BASE REMOVAL

- (1) Remove A screws(9 used) and remove the optical base.
- (2) Remove B screws(4 used) and remove the Assy cover lamp.
- (3) Remove C screws(4 used) and remove the Cover duct and FAN(FN902)
- (4) Remove D screws(4 used) and remove FAN(FN901)

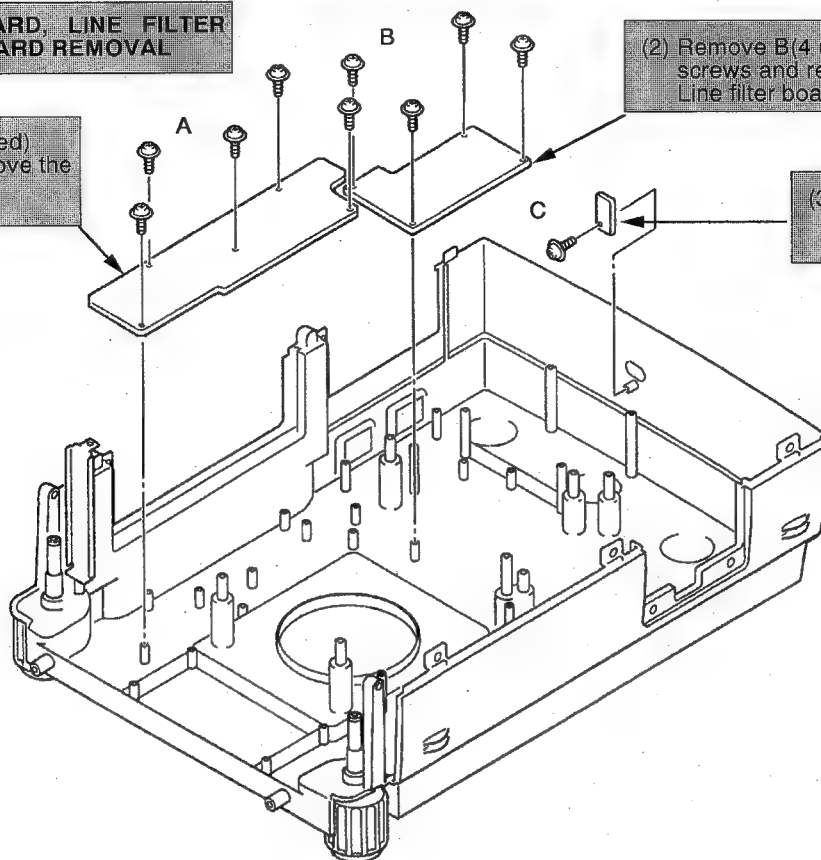
## DISASSEMBLIES AND REPLACEMENT PROCEDURES

### 12. MOTHER BOARD, LINE FILTER AND R/C 2 BOARD REMOVAL

(1) Remove A (5 used) screws and remove the Mother board.

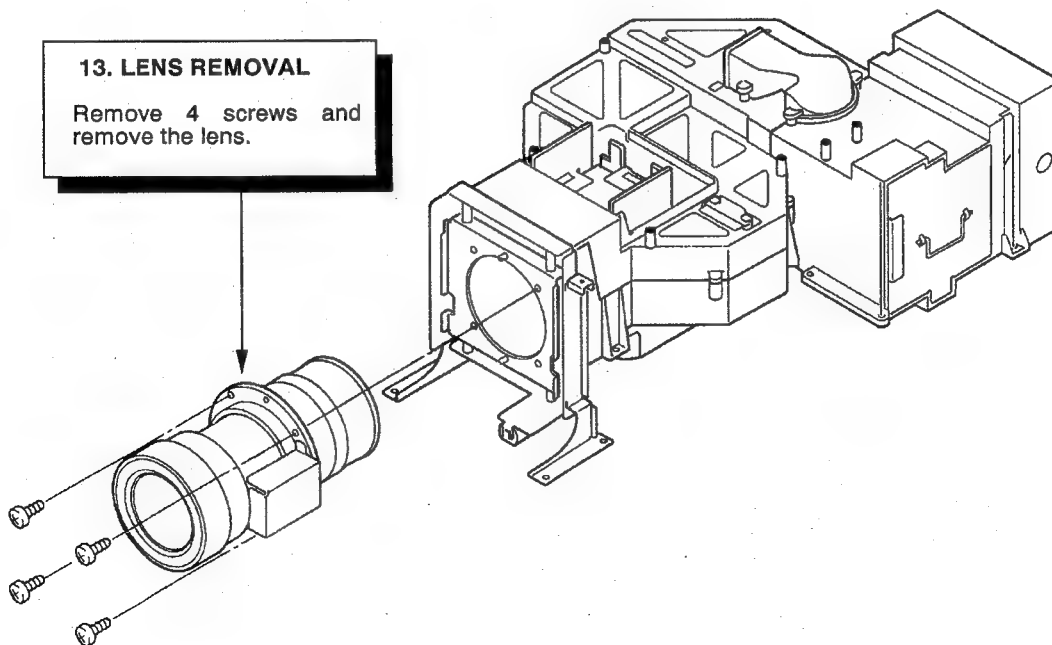
(2) Remove B (4 used) screws and remove the Line filter board.

(3) Remove a C screw and remove R/C 2 board.



### 13. LENS REMOVAL

Remove 4 screws and remove the lens.



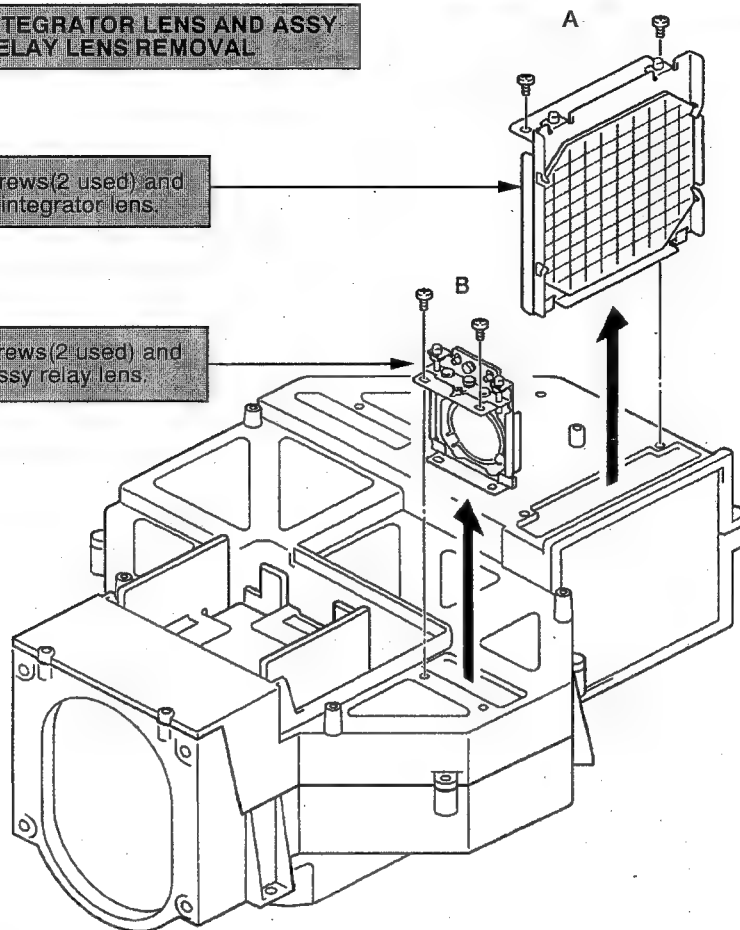
## DISASSEMBLIES AND REPLACEMENT PROCEDURES

### OPTICAL UNIT DISASSEMBLIES

#### 14. INTEGRATOR LENS AND ASSY RELAY LENS REMOVAL

(1) Remove A screws(2 used) and  
remove Assy integrator lens.

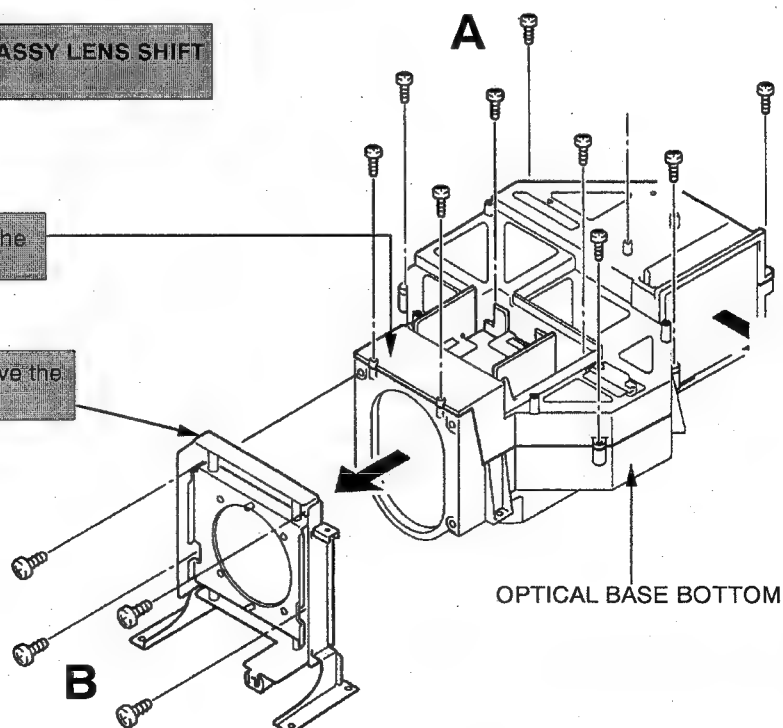
(2) Remove B screws(2 used) and  
remove the Assy relay lens.



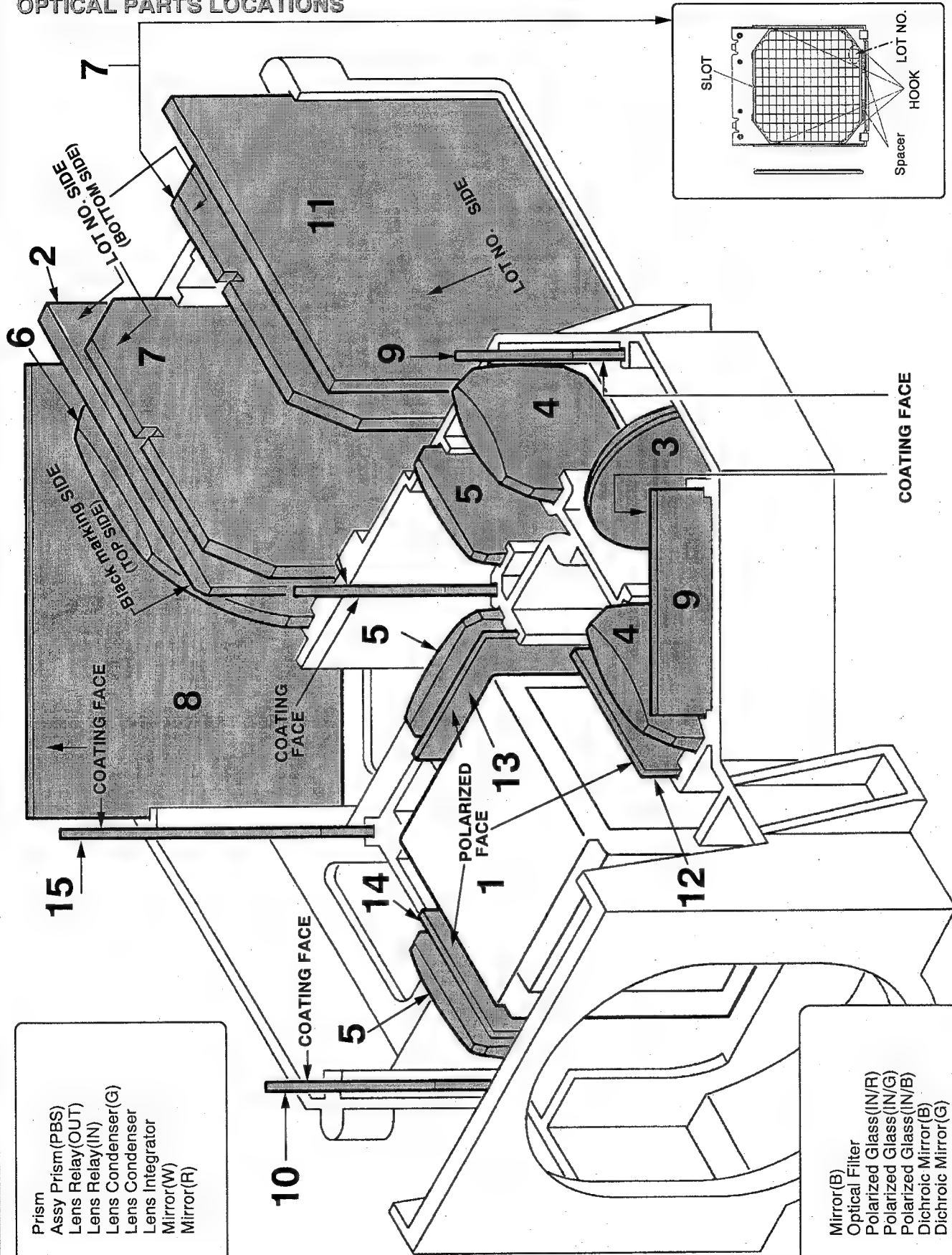
#### 15. OPTICAL BASE TOP AND ASSY LENS SHIFT REMOVAL

(1) Remove screws(9 used) and remove the  
Optical base top.

(2) Remove B screws(4 used) and remove the  
Assy lens shift.



OPTICAL PARTS LOCATIONS



1. Prism
2. Assy Prism(PBS)
3. Lens Relay(OUT)
4. Lens Relay(IN)
5. Lens Condenser
6. Lens Integrator
7. Mirror(W)
8. Mirror(R)
- 9.

10. Mirror(B)
11. Optical Filter
12. Polarized Glass(IN/R)
13. Polarized Glass(IN/G)
14. Polarized Glass(IN/B)
15. Dichroic Mirror(B)
16. Dichroic Mirror(G)

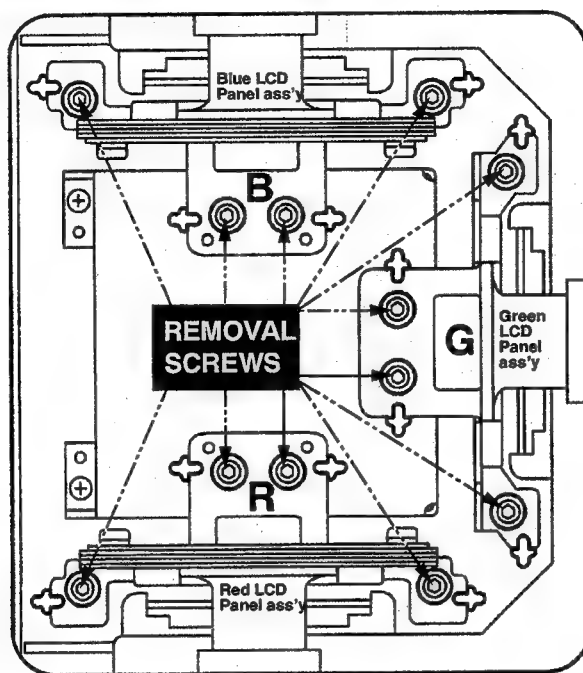


## DISASSEMBLIES AND REPLACEMENT PROCEDURES

### ASS'Y LCD PANEL REMOVAL

1. Remove 4 screws, securing the ass'y LCD Panel.
2. Pull out the ass'y LCD Panel.

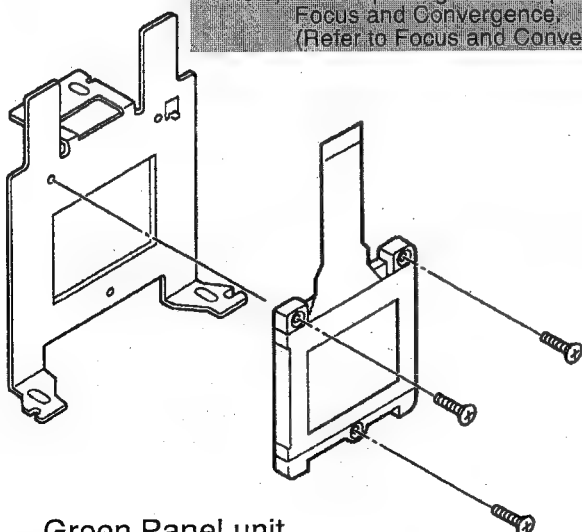
Note: After replacing the ass'y LCD panel, readjust the Focus and Convergence. (Refer to Focus and Convergence ADJ.)



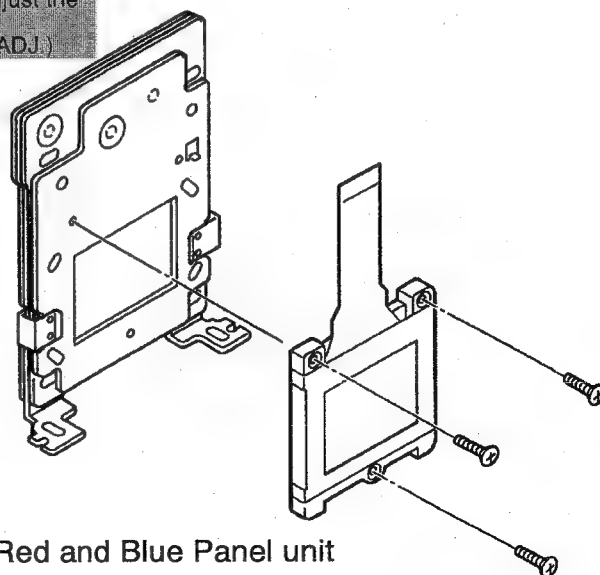
### LCD PANEL REPLACEMENT

Remove 3 screws, then remove the LCD Panel and replace it.

Note: After replacing the LCD panel, readjust the Focus and Convergence. (Refer to Focus and Convergence ADJ.)

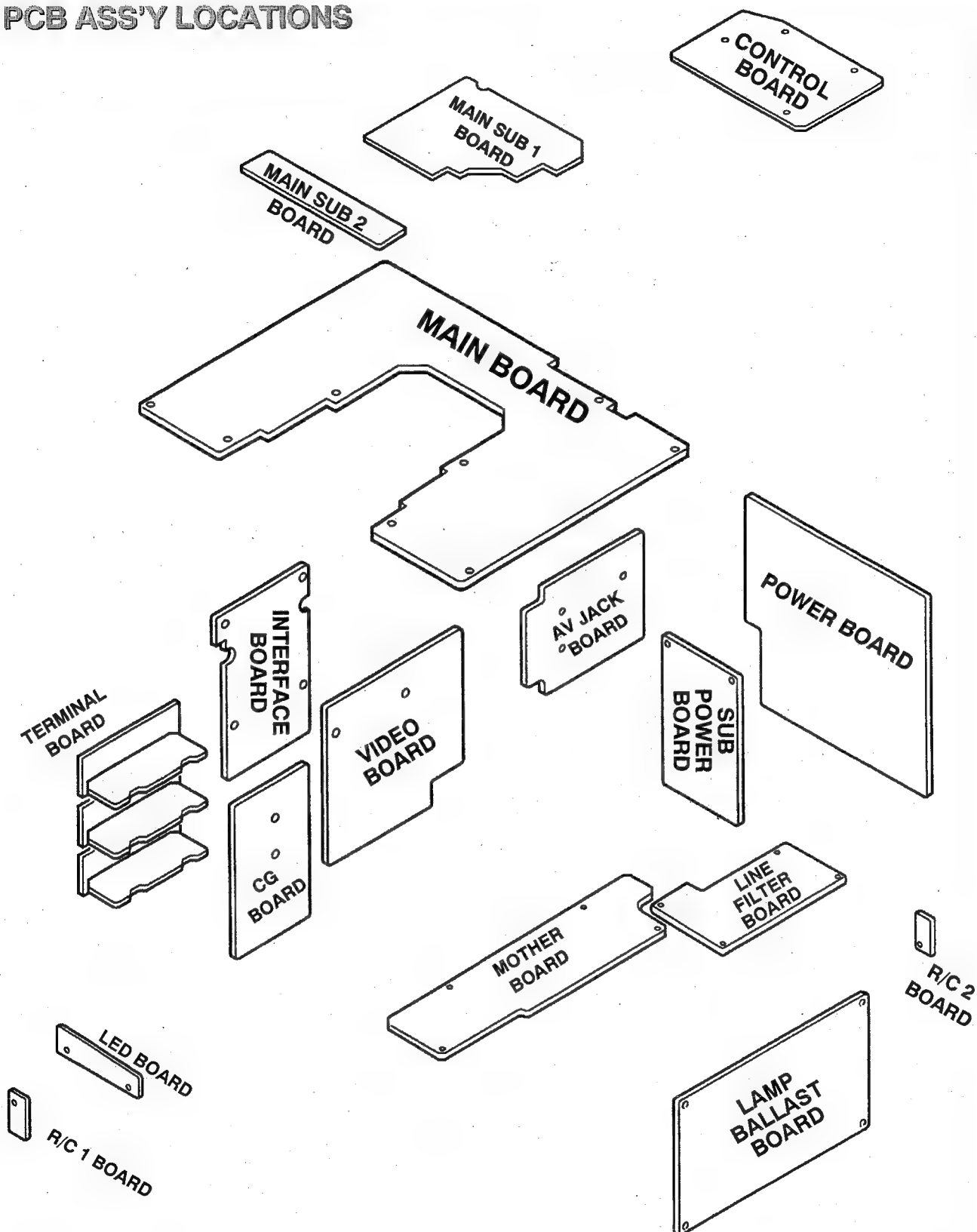


Green Panel unit



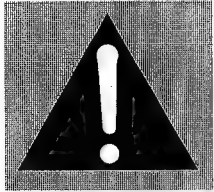
Red and Blue Panel unit

## PCB ASS'Y LOCATIONS



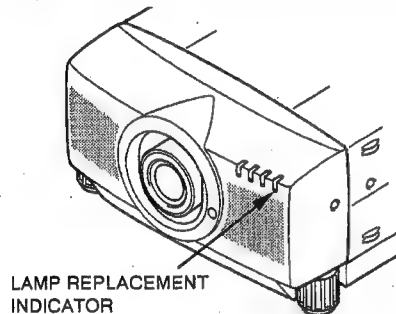
# Metal halide lamp ass'y replacement

## WARNING



- For continued safety, replace with a lamp assembly of the same type, part NO. 610 270 6796
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

If the lamp fails to come on and the lamp monitor on the projector light is orange, you must replace the bulb.

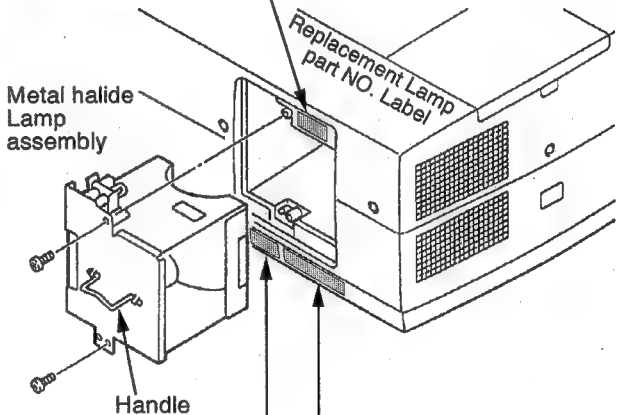
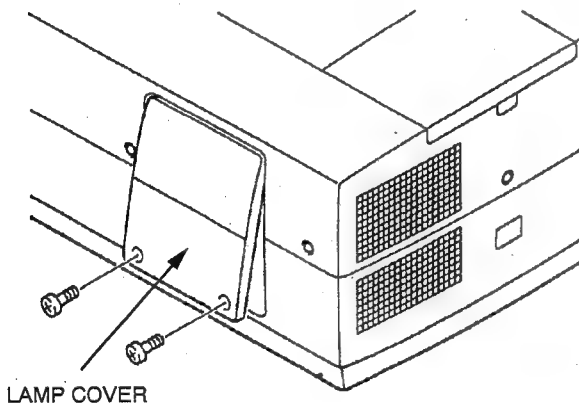


### ● Follow these steps to replace the lamp assembly.

1. Turn off the projector and allow the projector to cool thoroughly.
2. Disconnect the AC cord from the projector.
3. Remove 2 screws with a screwdriver and disconnect the lamp cover.
4. Remove 2 screws with a screwdriver and pull out the lamp assembly by grasping the handle.
5. Replace the lamp assembly.
6. Tighten 4 screws to secure the lamp cover to the lamp assembly.
7. Connect the detachable AC cord to the projector.
8. Reset the lamp replacement monitor timer. (Refer to next page.)

## WARNING

ALLOW TO COOL BEFORE ATTEMPTING TO CHANGE THE LAMP.  
USE ONLY REPLACEMENT LAMP PART NO. 610 270 6796



- ⚠ Turn off. Remove AC cord and wait 45 minutes before open this lamp cover. Refer owner's manual for replacing the lamp. Replace with same type lamp.
- ⚠ Eteindre l'appareil. Enlever le Cordon secteur et attendre 45 minutes avant d'ouvrir ce couvercle. Se reporter au mode d'emploi pour remplacer la lampe. Remplacer la lampe par un model identique.
- ⚠ Schalten Sie den Projektor aus, ziehen Sie das Stromkabel aus dem Projektor und warten Sie 45 Minuten, bevor Sie den Projektor öffnen. Lesen Sie im Manual im Kapitel "Lampenwechsel" die Details nach. Benutzen Sie nur eine offizielle Ersatzlampe des gleichen Typs.

A

- ⚠ Apague el aparato. Desconecte el cable de rad y espere 45 minutos antes de abrir la tapa. Consulte el manual de instrucciones para cambiar la lámpara. Cambie la lámpara por otra del mismo tipo.
- ⚠ Stäng av projektorn. Dra ur Kontakten och vänta 45 minuter innan Ni öppnar skyddet. Vi hänvisar till instruktionsboken innan Ni byter lampor. Använd samma typ av lampor.
- ⚠ Sluk for projektoren. Fjern netledningen fra stikkontakten og vent 45 min., før kabinettet abnes. Se i brugsanvisningen, før lampen skiftes. Brug samme type lampe.

B

## How to check the lamp illumination time

### 1. Checking procedure

With the projector in operating mode (synchronize picture view condition), press the POINT UP button for 20 seconds; digital display will appear on the screen for 3 seconds.

### 2. Calculation of illumination

Illumination Time = 1000 — Data Value

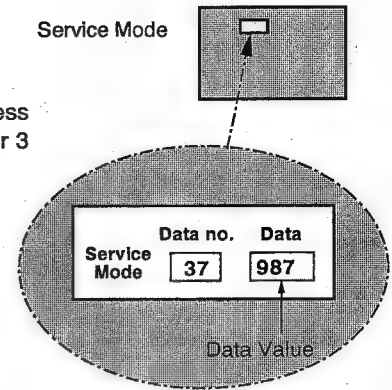
**Note: If the RESET "YES" is pressed, the data of illumination time will be initialized.**

### 3. Calculation example

1000 — 987 = 13

Approx. 13 hour of illumination

Service Mode



## ♠ RESET THE LAMP REPLACEMENT MONITOR TIMER.

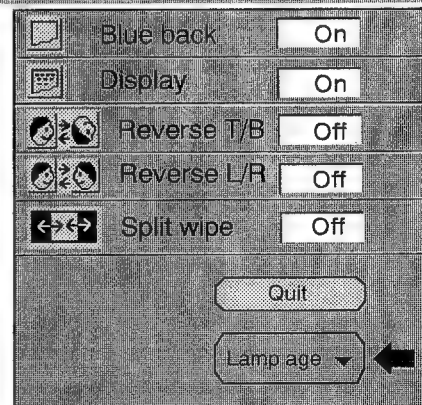
**NOTE:** Do not reset the LAMP REPLACEMENT MONITOR TIMER, except after the lamp is replaced.

1. Pressing the "MENU" Button and "SELECT" Button on the projector simultaneously and hold for 3 seconds.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select Lamp age and then press the SELECT (REAR CLICK) BUTTON. When you reset the lamp replace monitor, "lamp replace monitor reset?" is displayed for confirmation.
3. Move the arrow to Yes and then press the SELECT (REAR CLICK) BUTTON, "OK?" is displayed for confirmation. Move the arrow to Yes and then press the SELECT (REAR CLICK) BUTTON, the lamp replace monitor is reset.
4. Move the arrow to No and then press the SELECT (REAR CLICK) BUTTON. The lamp replace monitor is not reset.
5. To quit the MENU, move the arrow to Quit and then press the SELECT (REAR CLICK) BUTTON.

### MAIN MENU DISPLAY

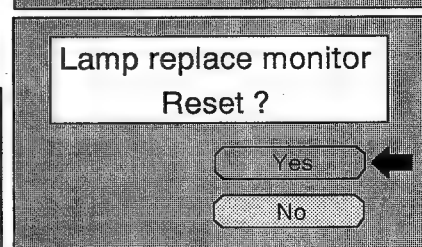
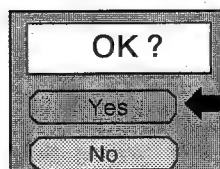


### SETTING DISPLAY



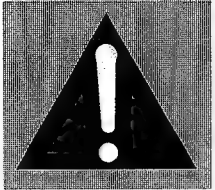
#### Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced. Refer to AIR FILTER CARE AND CLEANING on the Owner's Manual.



## FUSE REPLACEMENT

### WARNING



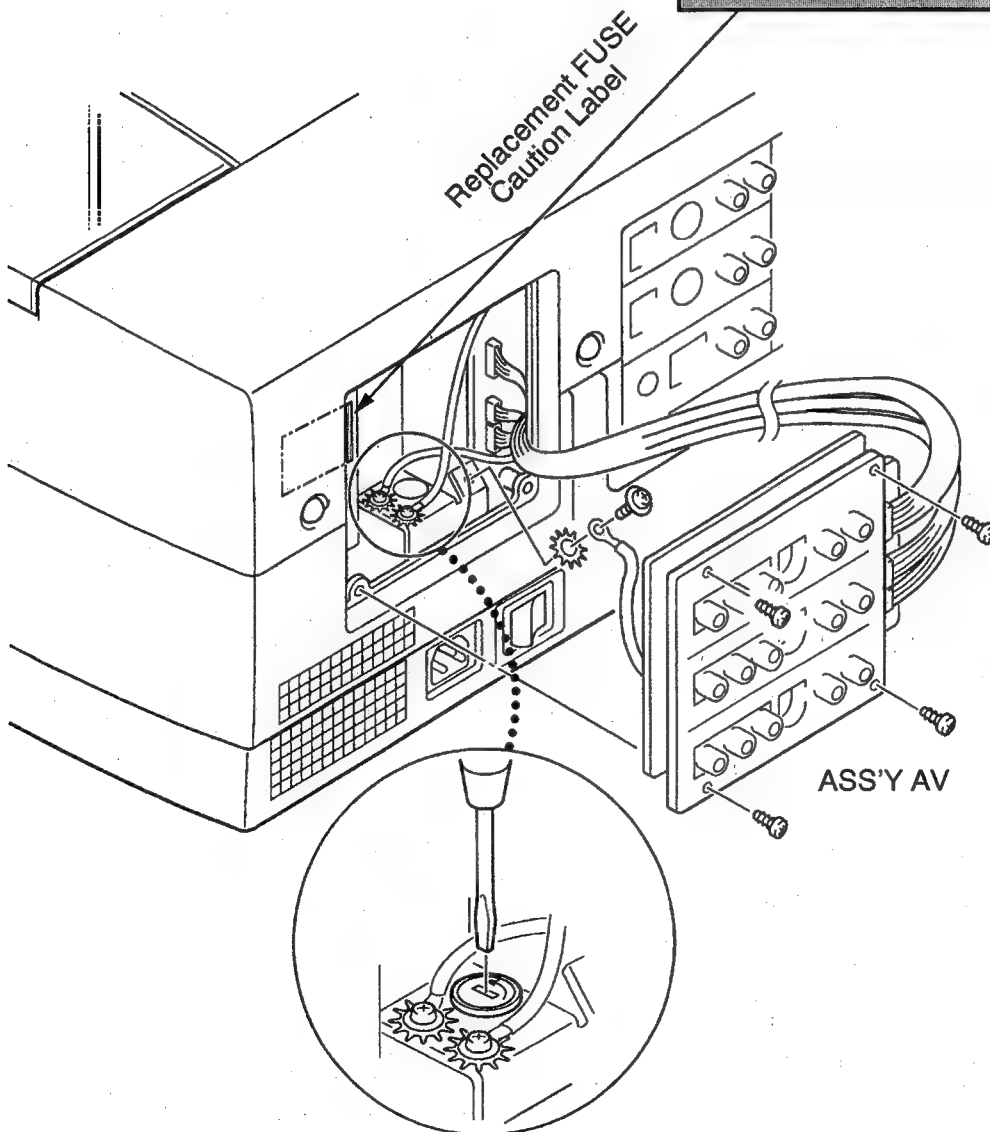
- FOR CONTINUED SAFETY, REPLACE WITH A FUSE OF THE SAME TYPE.

PART NO. 423 025 1201

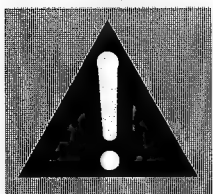
TYPE T8.0AH250V FUSE. (LITTELFUSE INC. TYPE 215)

**CAUTION :** FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH TYPE T8.0AH250V FUSE. (LITTELFUSE INC. TYPE 215)

**ATTENTION :** POUR MAINTENIR LA PROTECTION CONTRE LES RISQUES D'INCENDIE, N'UTILISER QUE DES FUSIBLES DE RECHANGE CALIBRES A T8.0AH250V. (LITTELFUSE INC. TYPE 215)







## SAFETY INSTRUCTIONS

### [ SAFETY PRECAUTIONS ]

**WARNING:** The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter transformer and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed:

1. An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
2. Comply with all caution and safety - related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers or shields and barriers.

**DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.**

4. Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must perform the following safety checks and be sure that it is completely safe to operate without danger of electrical shock.

### [ PRODUCT SAFETY NOTICE ]

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by a mark (  $\triangle$  ) in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

### [ SERVICE PERSONNEL ---- WARNING ]

**Eye damage may result from directly viewing the light produced by the Lamp used in this equipment.**

**Always turn off Lamp before opening cover. ultraviolet radiation eye protection required during this servicing.**

**Never turn the power on without the lamp to avoid electric - shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its start.**

**Since the lamp is very high temperature during units operation. Replacement of the lamp should be done at least one hour after the power has been turned off, to allow the lamp cool - off.**

## ELECTRICAL ADJUSTMENTS

### ※ 1. P.F.C. OUTPUT VOLTAGE ADJUSTMENT

#### CAUTION

- ★ AFTER REPLACING THE PARTS IN THE P.F.C. CIRCUIT, READJUST THE P.F.C. OUTPUT VOLTAGE.

Equipment..... Digital voltmeter  
Connections..... + K6D pin1  
..... - K6D pin3

Ac input voltage..... 230V AC  
Adjustment:..... Adjust VR71 to read  $370 \pm 2.0V$  DC  
or  
Ac input voltage..... 120V AC  
Adjustment:..... Adjust VR71 to read  $320 \pm 2.0V$  DC

#### Caution;

Be sure to connect the lamp to its power supply when doing the adjustment.

※ NOTE ; P.F.C..... POWER FACTOR CORRECTION

### 2. +6V DC VOLTAGE ADJUSTMENT

#### CAUTION

- ★ AFTER REPLACING THE PARTS IN THE +6V DC CIRCUIT, READJUST THE +6V DC VOLTAGE.

Equipment..... Digital voltmeter  
Connections..... + ; K6E pin2 (power board)  
..... - ; Chassis ground

Adjustment:..... Adjust VR662 to read  $6.0 \pm 0.1V$  DC

### 3. +15V DC VOLTAGE ADJUSTMENT

#### CAUTION

- ★ AFTER REPLACING THE PARTS IN THE +15V DC CIRCUIT, READJUST THE +15V DC VOLTAGE.

Equipment..... Digital voltmeter  
Connections..... + ; K6E pin5 (power board)  
..... - ; Chassis ground

Adjustment:..... Adjust VR661 to read  $15.5 \pm 0.1V$  DC

### 4. 12V DC VOLTAGE ADJUSTMENT

#### CAUTION

AFTER REPLACING THE PARTS IN THE +12V DC CIRCUIT, READJUST THE +12V DC VOLTAGE.

Equipment..... Digital voltmeter  
Connections..... + ; K6J pin5 (sub power board)  
..... - ; Chassis ground

Adjustment:..... Adjust VR681 to read  $12.0 \pm 0.1V$  DC

#### CAUTION

- After replacing the ASSY MAIN, readjust the adjust NO. 5-20 of electrical adjustments
- Do not replace IC806 unreasonably!! Refer to service adjustments.

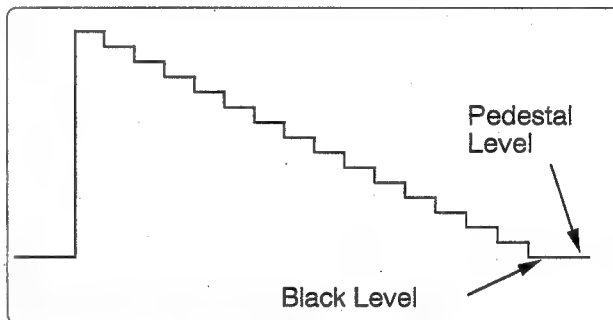
### 5. PEDESTAL LEVEL ADJUSTMENT

Equipment..... Oscilloscope  
Connections..... TP401  
..... Chassis ground

Input mode..... AV  
Input signal..... 16 Step gray scale video signal(NTSC)

Picture condition..... Normal

Adjustment:.....  
By using "02" data, (Refer to service adjustment) adjust pedestal level and black level to the same level.



### 6. RED VIDEO GAIN ADJUSTMENT

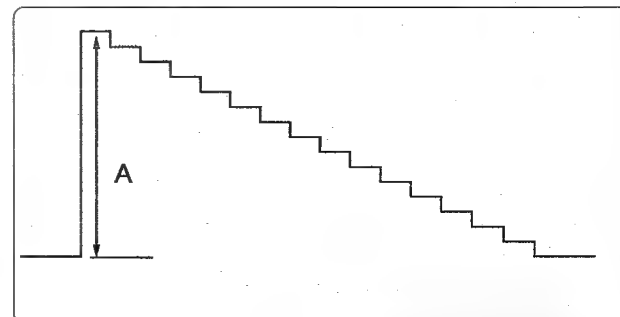
Equipment..... Oscilloscope  
Connections..... TP401  
..... Chassis ground

Input mode..... AV  
Input signal..... 16 Step gray scale video signal (NTSC)

Picture condition..... Normal

Adjustment:.....

By using "03" data, (Refer to service adjustment) adjust A to be  $1.70 \pm 0.05V$  P-P.



## Alignment Procedures

### 7. GREEN VIDEO GAIN ADJUSTMENT

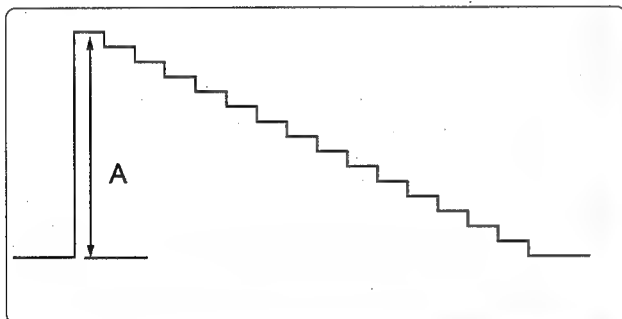
Equipment ..... Oscilloscope  
 Connections ..... TP402  
 ..... Chassis Ground

Input mode ..... AV  
 Input signal ..... 16 Step gray scale video signal (NTSC)

Picture condition ..... Normal

Adjustment: .....

By using "04" data, (refer to service adjustment)  
 adjust A to be  $1.70 \pm 0.05V$  P-P.



### 8. BLUE VIDEO GAIN ADJUSTMENT

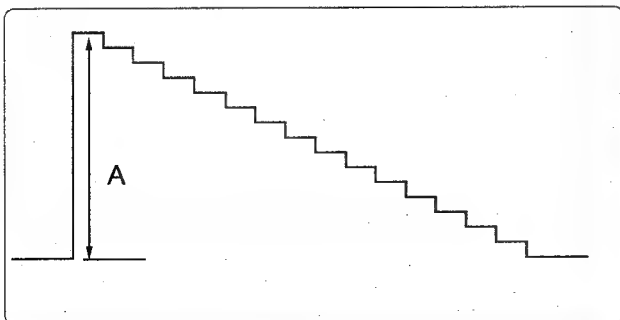
Equipment ..... Oscilloscope  
 Connections ..... TP403  
 ..... Chassis ground

Input mode ..... AV  
 Input signal ..... 16 Step gray scale video signal (NTSC)

Picture condition ..... Normal

Adjustment: .....

By using "05" data, (refer to service adjustment )  
 adjust A to be  $1.70 \pm 0.05V$  P-P.



### 9. SUB TINT ADJUSTMENT

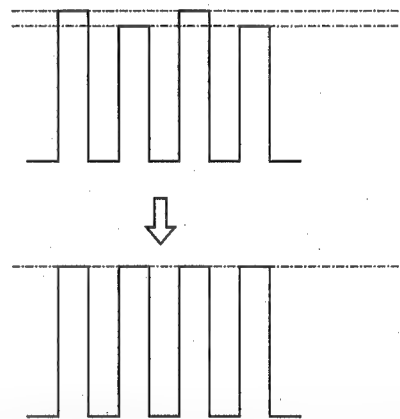
Equipment ..... Oscilloscope  
 Connections ..... TP203  
 ..... Chassis Ground

Input mode ..... AV  
 Input signal ..... Color bar signal (NTSC)

Picture condition ..... Normal

Adjustment: .....

Adjust "19" data (refer to service adjustment ) to  
 get wave as shown Fig. below.



## Alignment Procedures

### 10. R-SIG DC ADJUSTMENT

Equipment ..... Digital voltmeter  
Connections ..... TP2503  
..... Chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustment: ..... Adjust VR561 to read  $7.0 \pm 0.1V$  DC.

### 11. G-SIG DC ADJUSTMENT

Equipment ..... Digital voltmeter  
Connections ..... TP2502  
..... Chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustment: ..... Adjust VR531 to read  $7.0 \pm 0.1V$  DC.

### 12. B-SIG DC ADJUSTMENT

Equipment ..... Digital voltmeter  
Connections ..... TP2501  
..... Chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustment: ..... Adjust VR501 to read  $7.0 \pm 0.1V$  DC.

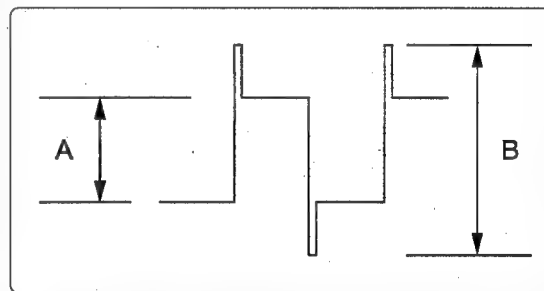
### 13. PSIG ADJUSTMENT

Equipment ..... Oscilloscope  
Connections ..... TP2504  
..... Chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustments: .....

1. By using VR402, adjust A to be  $3.8 \pm 0.1V$  P-P.

2. By using VR401, adjust B to be  $10.0 \pm 0.1V$  P-P.



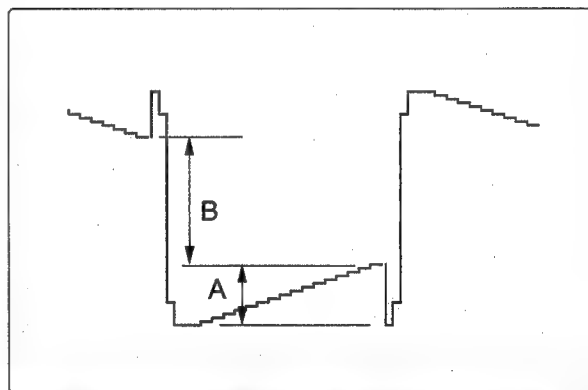
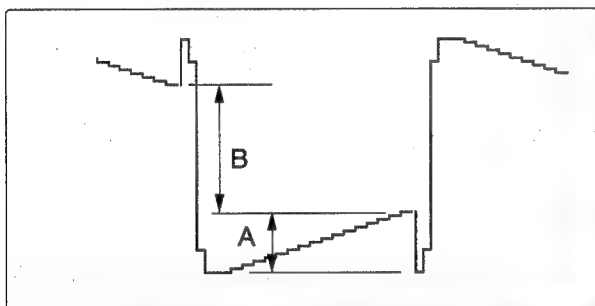
年份	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																							
人口	115964	116964	117964	118964	119964	120964	121964	122964	123964	124964	125964	126964	127964	128964	129964	130964	131964	132964	133964	134964	135964	136964	137964	138964	139964	140964	141964	142964	143964	144964	145964	146964	147964	148964	149964	150964	151964	152964	153964	154964	155964	156964	157964	158964	159964	160964	161964	162964	163964	164964	165964	166964	167964	168964	169964	170964	171964	172964	173964	174964	175964	176964	177964	178964	179964	180964	181964	182964	183964	184964	185964	186964	187964	188964	189964	190964	191964	192964	193964	194964	195964	196964	197964	198964	199964	200964	201964	202964	203964	204964	205964	206964	207964	208964	209964	210964	211964	212964	213964	214964	215964	216964	217964	218964	219964	220964	221964	222964	223964	224964	225964	226964	227964	228964	229964	230964	231964	232964	233964	234964	235964	236964	237964	238964	239964	240964	241964	242964	243964	244964	245964	246964	247964	248964	249964	250964	251964	252964	253964	254964	255964	256964	257964	258964	259964	260964	261964	262964	263964	264964	265964	266964	267964	268964	269964	270964	271964	272964	273964	274964	275964	276964	277964	278964	279964	280964	281964	282964	283964	284964	285964	286964	287964	288964	289964	290964	291964	292964	293964	294964	295964	296964	297964	298964	299964	300964	301964	302964	303964	304964	305964	306964	307964	308964	309964	310964	311964	312964	313964	314964	315964	316964	317964	318964	319964	320964	321964	322964	323964	324964	325964	326964	327964	328964	329964	330964	331964	332964	333964	334964	335964	336964	337964	338964	339964	340964	341964	342964	343964	344964	345964	346964	347964	348964	349964	350964	351964	352964	353964	354964	355964	356964	357964	358964	359964	3609

## 16. R VIDEO ADJUSTMENT

Equipment .....	Oscilloscope
Connections .....	TP2503
	Chassis ground
Input mode .....	Computer
Input signal .....	16 Step gray scale signal
Picture condition .....	Normal

Adjustments: .....

1. By using "0A" data, (refer to service adjustment) adjust B to be  $1.8 \pm 0.05V$  P-P.
2. By using "09" data, (refer to service adjustment) adjust A to be  $3.6 \pm 0.05V$  P-P.
3. By using "0A" data, (refer to service adjustment) adjust B to be  $2.2 \pm 0.05V$  P-P.

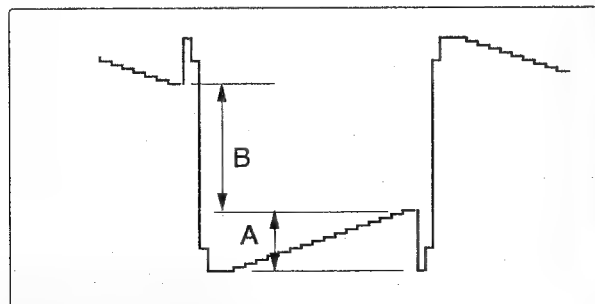


Age Group	Education Level	U.S. should take action (%)	U.S. should not take action (%)
18-29	High School	~45	~55
	College	~55	~45
	Graduate	~65	~35
30-49	High School	~55	~45
	College	~65	~35
	Graduate	~75	~25
50-69	High School	~65	~35
	College	~75	~25
	Graduate	~85	~15
70+	High School	~75	~25
	College	~85	~15
	Graduate	~95	~5

A diagram of a rectangular block with a diagonal crack. The height is labeled 'B' and the width is labeled 'A'. The crack runs from the bottom-left corner to the top-right corner.

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1. By using "08" data, (refer to service adjustment) adjust B to be  $1.8 \pm 0.05V$  P-P.
2. By using "07" data, (refer to service adjustment) adjust A to be  $3.6 \pm 0.05V$  P-P.
3. By using "08" data, (refer to service adjustment) adjust B to be  $2.2 \pm 0.05V$  P-P.



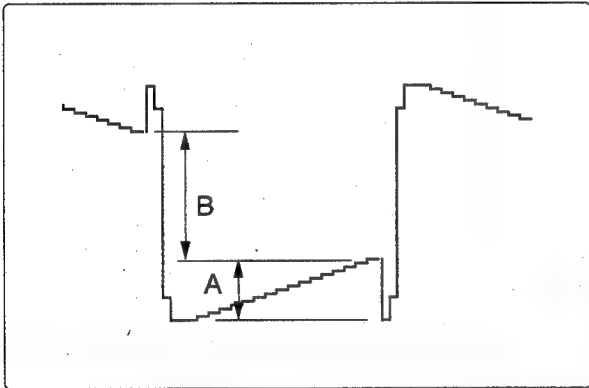


## 17. B VIDEO ADJUSTMENT

Equipment	Oscilloscope
Connections	TP2501
	Chassis ground
Input mode	Computer
Input signal	16 Step gray scale signal
Picture condition	Normal

Adjustments: .....

1. By using "0C" data, (refer to service adjustment) adjust B to be  $1.8 \pm 0.05V$  P-P..
2. By using "0B" data, (refer to service adjustment) adjust A to be  $3.6 \pm 0.05V$  P-P.
3. By using "0C" data, (refer to service adjustment) adjust B to be  $2.2 \pm 0.05V$  P-P..



## 18. COMMON CENTER ADJUSTMENT

Input mode ..... Computer  
Picture condition ..... Normal

**Adjustments;**

**RED...** Cover the G and B panel to cut the light transit.

Adjust VR562 to minimum flicker on picture.

**GREEN** Cover the R and B panel to cut the light transit.

**Adjust VR532 to minimum flicker on picture.**

**BLUE** .. Cover the R and G panel to cut the light transit.

**Adjust VR502 to minimum flicker on picture.**

## Alignment Procedures

### 19. WHITE BALANCE ADJUSTMENT

Input mode ..... Computer  
 Input signal ..... 16 Step gray scale signal  
 Picture condition ..... Normal  
 Adjustment;

1. "By using "0A" (Red) and "0C" (Blue) datas, adjust the White Balance.  
 (Refer to service adjustment.)

After the adjustment, switch the INPUT mode from Computer to AV, input a gray scale Video signal or MONO scope test pattern signal. Even if you have to change the COLOR Adjustment (in Picture Image Adjustment), try to change the White Balance as little as possible.

2. When the white sides of 16 Step gray scale signal are saturated after STEP 1 of White Balance Adjustments, adjust Service Mode "10" to break up the saturation (refer to service adjustment).

Note: When Service Mode "10" (Green bias) is adjusted, Service Mode "11" (Red bias) and "12" (Blue bias) are also influenced.

White Balance is not influenced by the adjustments of Service Mode "10".

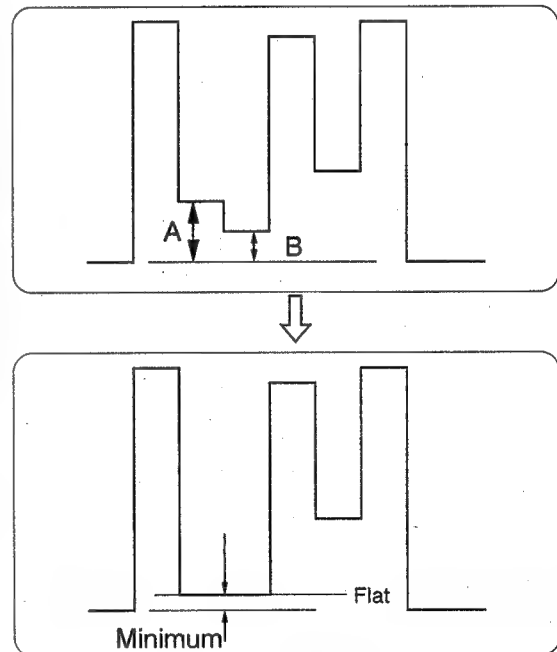
### 20. SAMPLE HOLD CLOCK ADJUSTMENT

Equipment ..... Oscilloscope  
 Connections ..... TP2502

..... Chassis ground  
 Put the TP3302 signal into the EXT. Trigger Input on the oscilloscope to synchronize the TP2502 waveform.

Input mode ..... Computer  
 Input signal ..... gray scale signal  
 Picture condition ..... Normal  
 Adjustments: .....

By using "06" data, (refer to service adjustment) adjust A and B levels to the same level, and minimum levels.



# ALIGNMENT PROCEDURES

## SERVICE ADJUSTMENTS

### SERVICE MODE

To change the mode from the normal mode to the "Service mode" by pressing the " MENU " Button and " NORMAL " Button on the projector simultaneously and hold for 3 seconds.

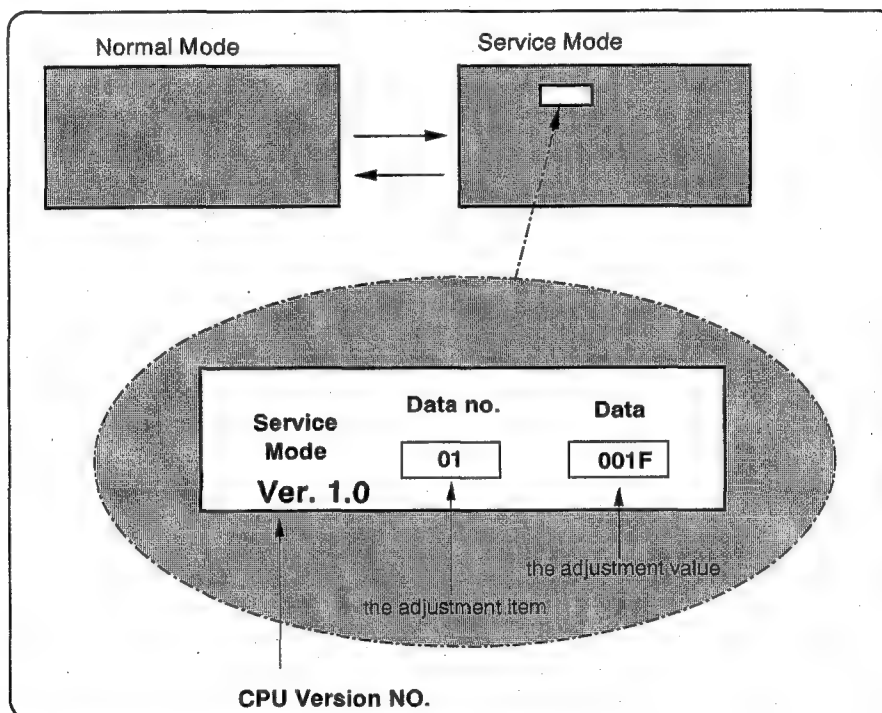
To change the mode from the Service mode to the "normal mode" by pressing the " POWER ON/OFF " Button on the projector or remote control unit .

### SERVICE DATA ADJUSTMENTS

When replacing electrical parts, readjust service data, as necessary.

Data for each item is adjusted by "POINT UP / DOWN " Button and " VOLUME +/- " Button on the projector or remote control unit.

The "POINT UP " Button and "POINT DOWN " Button change the adjustment item, and "VOLUME + " Button and "VOLUME - " Button change the adjustment value.



#### ⚠ CAUTION: Do not replace IC806 unreasonably!!

IC806 (EP-ROM) memorizes the data adjusted at Service Mode, and should not be replaced except for the case of defective product.

Lamp Illumination Time, Data No. 37 of Service Mode, is memorized in IC806 to indicate the span of Lamp Life. When IC806 is replaced, Lamp Illumination Time is reset at the same time.  
(Lamp Illumination Time can not be set to the previous value.)

#### ● Caution to replace IC806.

When IC is replaced with new one, CPU write in initial data in IC806. Initial data is not the same data as Factory Initial Data, and the further adjustments and input as follows are required.

Data No. 00, 02 ~ 0D, 10, 19 of Service Mode should be adjusted (refer to next page and Electrical adjustments).

Data except the data above is required to input the value on Data chart of Service Mode (refer to next page).

Lamp Illumination Time is reset to the initial value.

#### ● Caution to replace Main Assy (In the case IC806 is not damaged)

When Main Assy is replaced, IC806 on new Main Assy should be replaced with the one on previous Main Assy. After replacement, adjust and check the data in IC as follow.

Readjust the adjust NO. 5~20 of electrical adjustments (refer to Electrical adjustments and next page).

Check the service mode data NO. 01, 0D~0F, 13~18, 1B~36, 38~5C, with the value on Data chart of Service Mode (refer to next page).

Lamp Illumination Time keep the value as before.

# SERVICE ADJUSTMENTS

## SERVICE DATA

CPU Version NO. 1.0

Data NO.	Adjustment Item	Factory Initial Value
00	GREEN VIDEO1 adjustment	According to Electrical Adjustment
01	NOT USED	001E
02	PEDESTAL LEVEL adjustment	According to Electrical Adjustment
03	RED VIDEO gain adjustment	According to Electrical Adjustment
04	GREEN VIDEO gain adjustment	According to Electrical Adjustment
05	BLUE VIDEO gain adjustment	According to Electrical Adjustment
06	Sample hold clock adjustment	According to Electrical Adjustment
07	Green Video2 adjustment (sub bright)	According to Electrical Adjustment
08	Green Video2 adjustment (G bias)	According to Electrical Adjustment
09	Red Video adjustment (R gain)	According to Electrical Adjustment
0A	Red Video adjustment (R bias)	According to Electrical Adjustment
0B	Blue Video adjustment (B gain)	According to Electrical Adjustment
0C	Blue Video adjustment (B bias)	According to Electrical Adjustment
0D	NOT USED	0007
0E	↓	0007
0F		0007
10	White balance adj. (Green bias)	According to Electrical Adjustment
11	(Red bias)	According to Electrical Adjustment
12	(Blue bias)	According to Electrical Adjustment
13	NOT USED	0006
14	↓	0007
15		0005
16		0005
17		0005
18	↓	000E
19	SUB TINT Adjustment	According to Electrical Adjustment
1A	NOT USED	0007
1B		---
1C		---
1D		---
1E		0000
1F		0010
20		0033
21		0031
22		0004
23		0000
24		0000
25		0001
26		04E6
27		0316
28		03DE
29		0514
2A		05AA
2B		037A
2C		0447
2D		063B
2E		063B
2F		0001
30		---
31		---
32		---
33	↓	0001

- Data is not related to the service and maintenance except for Data No. 00, 02~0C, 10~12, 19.  
If the value of those data is not set as Factory Initial Data, reset the data as Factory Initial Data.

XXX

# SERVICE ADJUSTMENTS

## SERVICE DATA

CPU Version NO. 1.0

Data NO.	Adjustment Item	Factory Initial Value
34	NOT USED	0003
35	↓	0000
36		0000
37	LAMP ILLUMINATION TIME	READ ONLY
38	NOT USED	0000
39		----
3A		----
3B		----
3C		----
3D		----
3E		----
3F		----
40		NTSC 051C / PAL 052F
41		NTSC 0220 / PAL 0222
42		NTSC 04CA / PAL 04E0
43		NTSC 0010 / PAL 0016
44		NTSC 01CD / PAL 0202
45		NTSC 0249 / PAL 0245
46		NTSC 004B / PAL 004E
47		NTSC 02FD / PAL 02EF
48		NTSC 0004 / PAL 0004
49		NTSC 0510 / PAL 0518
4A		NTSC 0220 / PAL 0222
4B		NTSC 04C4 / PAL 04D3
4C		NTSC 0005 / PAL 0006
4D		NTSC 0268 / PAL 0301
4E		NTSC 0246 / PAL 0241
4F		NTSC 004D / PAL 0052
50		NTSC 028C / PAL 028D
51		NTSC 0068 / PAL 0076
52		0002
53		----
54		----
55		----
56		----
57		----
58		----
59		----
5A	↓	1000
5B	RS232C BIT RATE	0001 (0000 → 9600 , 0001 → 19200)
5C	NOT USED	0000
5D	Computer & AV mode or Computer mode only SELECT SWITCH	Computer & AV mode ; 0000 Computer mode only ; 0001

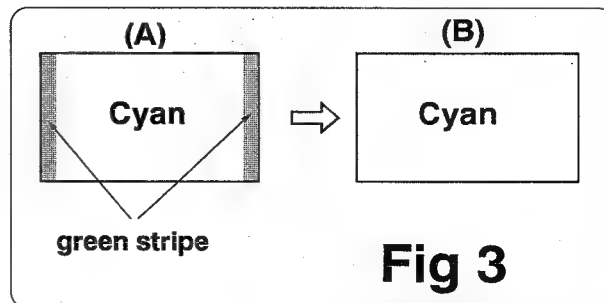
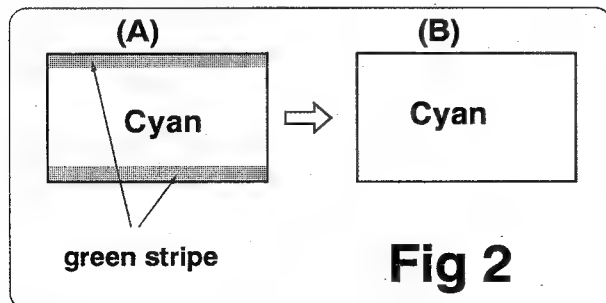
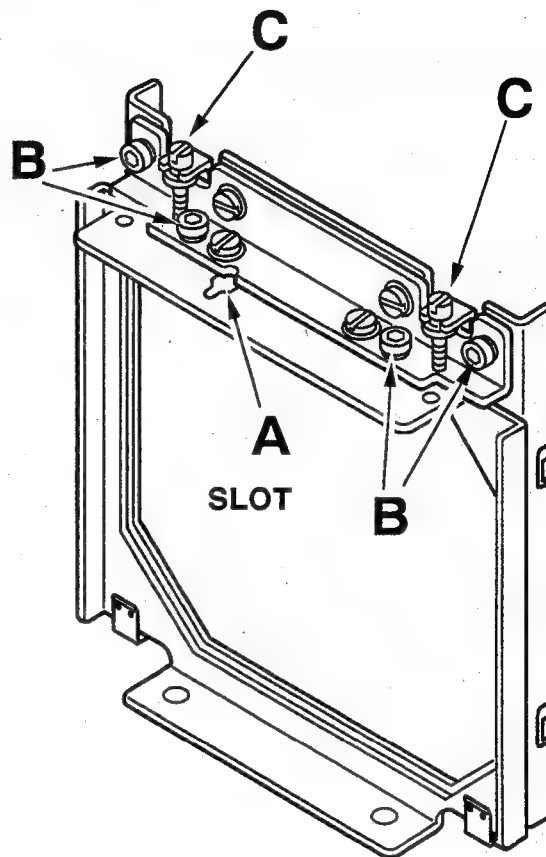
- Data is not related to the service and maintenance except for Data No. 37, 5B, and 5D.  
If the value of those data is not set as Factory Initial Data, reset the data as Factory Initial Data.

XXX

## 1. Integrator lens adjustment

1. Set the size of a screen in about 40 inches.
2. Insert paper, etc. into Red panel to block the Red light output.
3. Loosen the screws B of integrator lens unit. .... (Fig. 1)
4. If the green stripe appears top or bottom on the screen as shown the Fig. 2 (A) below.  
Adjust the screws C to make cyan color uniformity by using slotted screwdriver. .... (Fig. 2)
5. If the green stripe appears right or left on the screen as shown the Fig. 3 (A) below.  
Adjust the slot A to make cyan color uniformity by using slotted screwdriver. .... (Fig. 3)
6. Tighten the screws B of Integrator lens unit .

Fig.1 Integrator lens unit

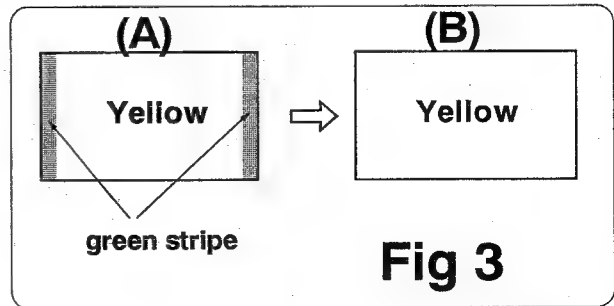
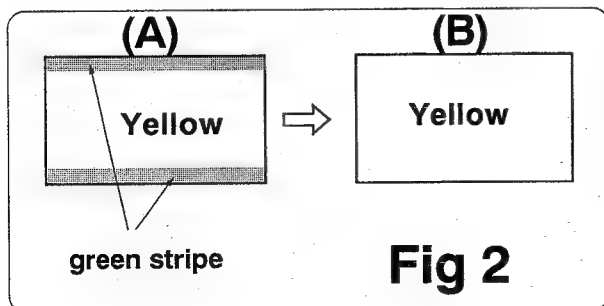
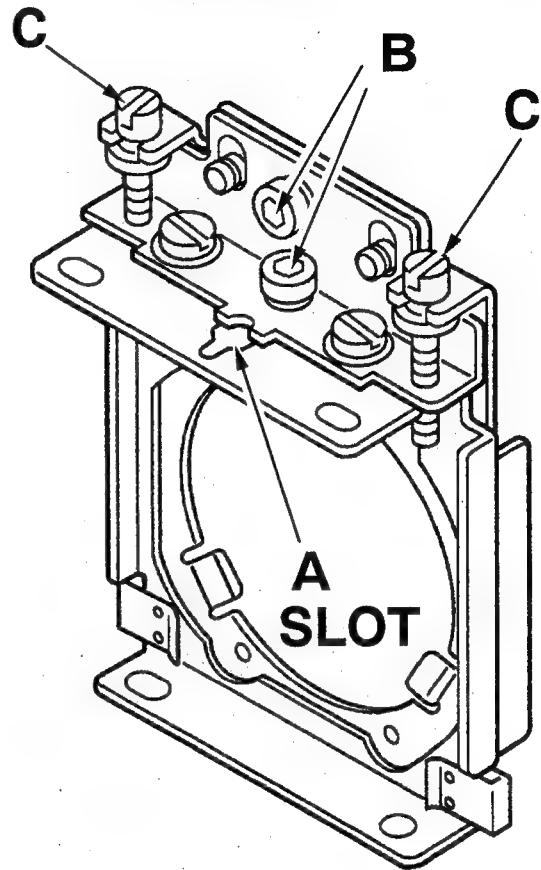




## 2. Relay lens adjustment

1. Set the size of a screen in about 40 inches.
2. Insert paper, etc. into Blue panel to block the Blue light output.
3. Loosen the screws B of Relay lens unit.  
..... (Fig. 1)
4. If the green stripe appears top or bottom on the screen as shown the Fig. 2 (A) below.  
Adjust the screws C to make yellow color uniformity by using slotted screwdriver.  
..... (Fig. 2)
5. If the green stripe appears right or left on the screen as shown the Fig. 3 (A) below.  
Adjust the slot A to make yellow color uniformity by using slotted screwdriver.  
..... (Fig. 3)
6. Tighten the screws B of Relay lens unit .

Fig.1 Relay lens unit



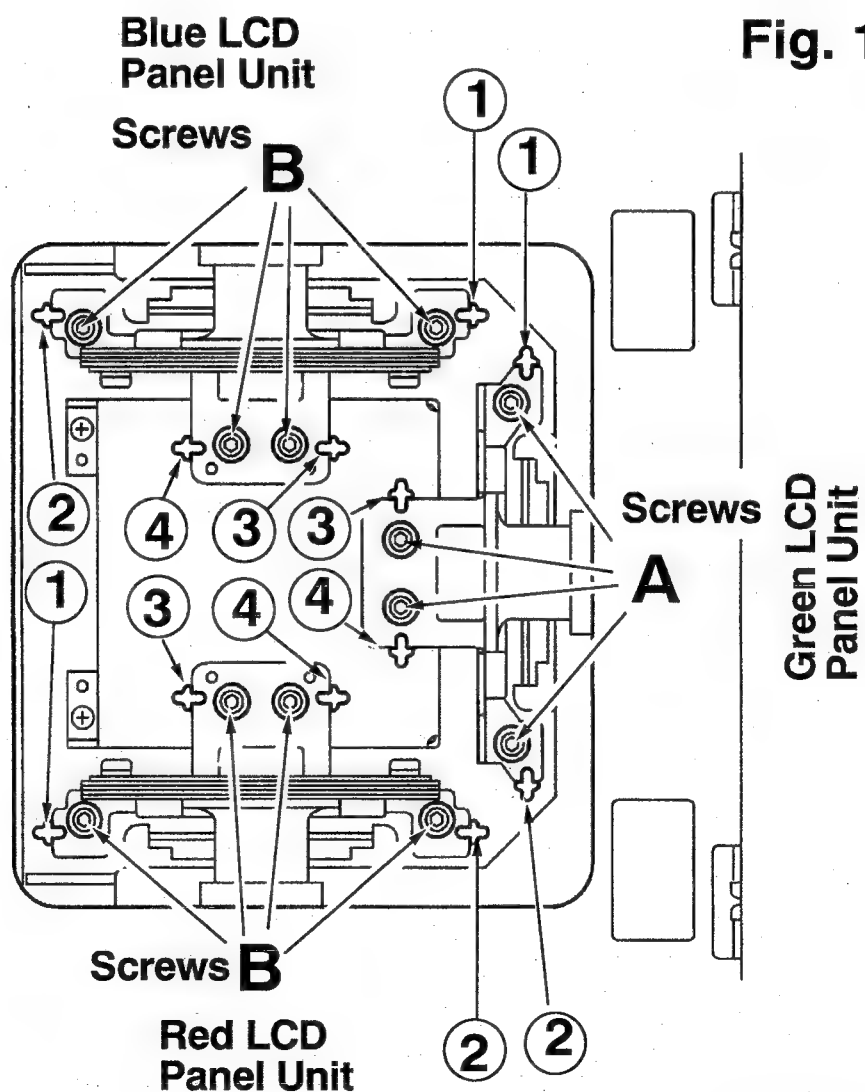
### 3. Focus Adjustment

For adjusting focus, first adjust the Green LCD panel unit as the standard reference. Adjust the Green panel unit position so that the screen will not go out of focus by zooming. Then bring the focus of the Blue and Red LCD panel screen into sharp focus by adjusting the position of their panel units.

【 Before adjustment ; 】

input a computer signal (Grid pattern) .

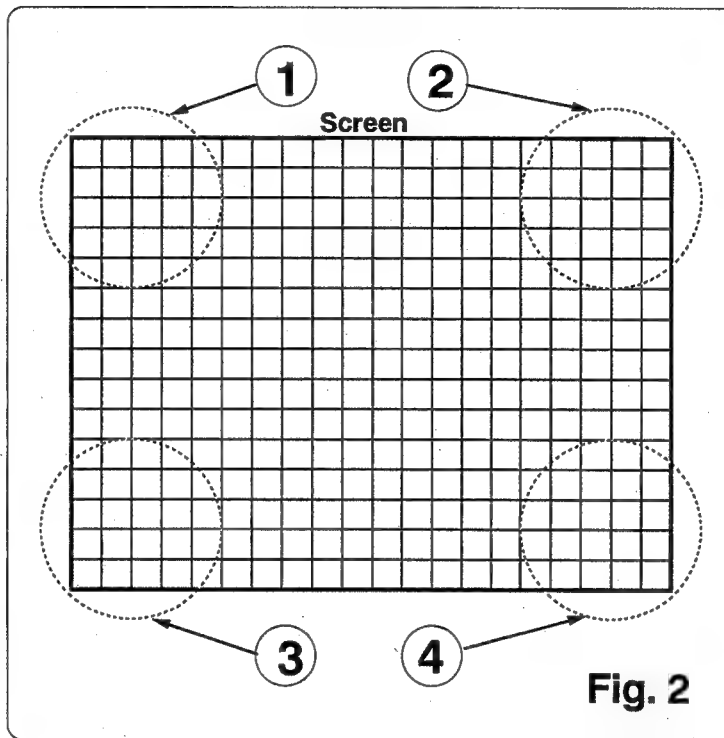
Adjustment requires a 2.5mm hex wrench and slot screwdriver .



## 【 Alignment procedures 】

### 【 Green LCD panel unit Focus Adjustment 】

1. Switch the projector on and project the adjustment pattern on the screen.
2. Insert paper, etc. in Red panel and Blue panel to block the Red and Blue light so that only Green light is projected.
3. Press zoom (  $\nabla$  ) button on the remote control unit to the "Tele" position (to reduce image size) and press Focus(  $\Delta$  ) or (  $\nabla$  ) button on the remote control unit for brst focus.
4. Press zoom (  $\Delta$  ) button on the remote control unit to "Wide" position (to increase image size) and confirm that the screen remains in focus. If it is in sharp focus, adjustment is complete. If not, follow the steps below.
5. Loosen the 4 screws "A" (Fig. 1 ) with the 2.5mm hex wrench.
6. Insert the slot type screwdriver in the slits ① ② ③ and ④ (Fig. 1 ) and gently turn the screwdriver until the screen ① ② ③ and ④ (Fig. 2 ) are in sharp focus.
7. Tighten the 4 screws "A" (previously loosened in step 5) and securely attach the Green panel unit.
8. Press zoom (  $\nabla$  ) button on the remote control unit to the "Tele" position and check to see if sharp focus is retained. If in sharp focus, adjustment is complete. If not, repeat steps 5. to 8. above.



### 【 Red/Blue LCD panel unit Focus Adjustment 】

Before performing this adjustment, make sure Green LCD panel unit focus adjustment is complete.

1. Switch the projector on and project the adjustment pattern on the screen.
2. Block unnecessary light by inserting paper, etc.

in the panel so that only the Red or Blue light is projected.

3. Loosen the 4 screws "B" (Fig. 1 ) with the 2.5mm hex wrench.

4. Insert the slot type screwdriver in the slits ① ② ③ and ④ (Fig. 1 ) and gently turn the screwdriver until the screen ① ② ③ and ④ (Fig. 2 ) are in sharp focus.

5. Tighten the 4 screws "B" (previously loosened in step 3) and securely attach the Red or Blue panel unit.

6. Compare the projected image with the Green panel image. If the sizes of both images coincide with each other, adjustment is complete. If not, repeat steps 3. to 6. above.

## 【 4. Convergence Adjustment 】

### 【 Before Adjustment 】

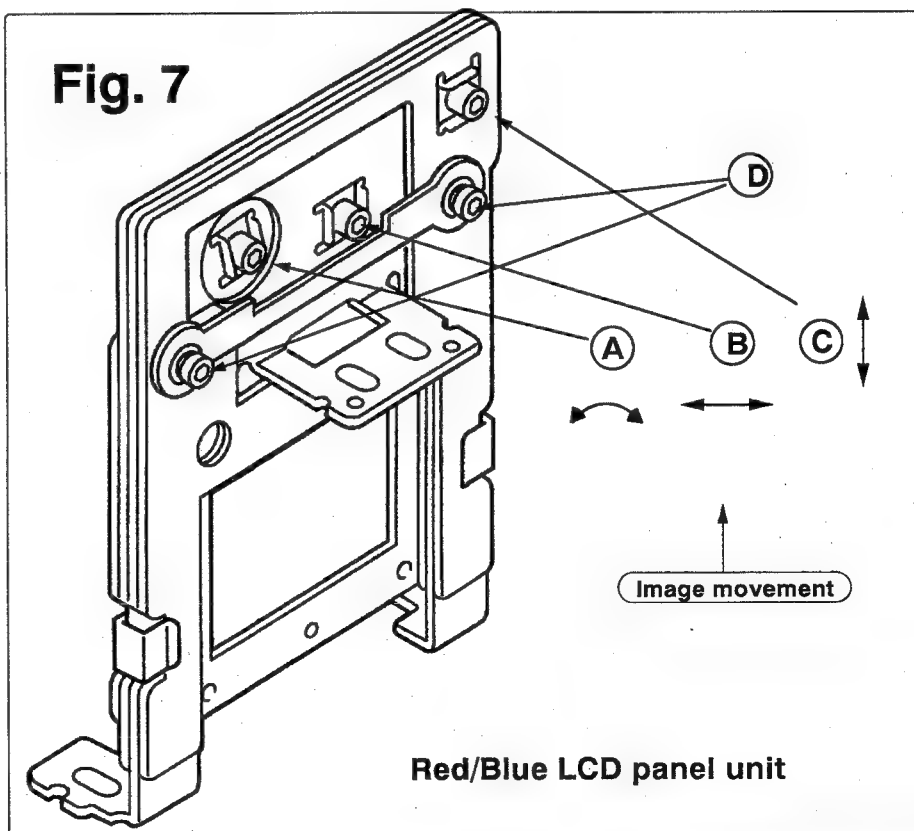
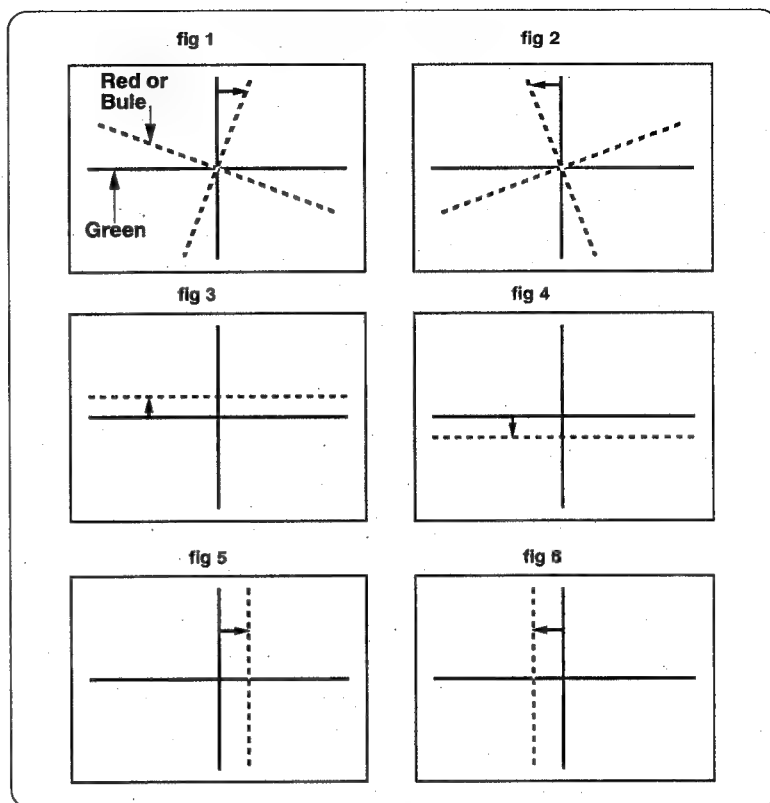
Make sure each Red, Green, Blue LCD panel unit has been correctly installed, and that all focus adjustments have been completed before performing convergence adjustments. (See Focus Adjustments)

Use a grid pattern for adjustment. First make a rough adjustment using a video signal and then fine adjust by using a computer signal.

For convergence adjustment, use Green as the reference standard. Align Red and Blue with Green by adjusting the position and angle of the Red and Blue LCD panels. Screws "A", "B" and "C" (Fig.7 & 8) are for convergence adjustment.

### 【 Image Movement According to Adjustment Screw Turning Direction 】

1. Turning adjustment screw "A" turns the image. (Fig.1 & 2)
2. Turning adjustment screw "B" moves the image right and left. (Fig. 5 & 6)
3. Turning adjustment screw "C" moves the image up and down. (Fig. 3 & 4)



【 Convergence Adjustment 】

Red / Blue Panel Adjustment :

1. Switch the projector on and project a video signal (grid pattern) on the screen.
2. Block unnecessary light by inserting paper, etc. in the panel so that only the Red or Blue light is projected.
3. Loosen the 2 screws " D " (Fig. 7 ) using the 2.5mm. hex wrench.
4. Using the screw " A " , align the Red or Blue panel so that the Red or Blue grid pattern vertical center line is parallel to the Green grid pattern vertical center line. (Fig. 1, 2)
5. Using the screw " B " align the Red or Blue vertical center line on top of the Green vertical line. (Fig. 5, 6)
6. Repeat steps 4 and 5 until the Red or Blue vertical line is aligned exactly on top of the Green vertical line.
7. Using the screw " C " align the Red or Blue horizontal center line on top of the Green horizontal center line. (Fig. 3, 4)
8. By repeating steps 4 through 7, align the Red or Blue grid pattern on top of the Green grid pattern.
9. Input a computer signal (grid signal) and check the convergence in fine sync'd condition (grid vertical line is most clear). If not aligned, repeat steps 4 through 9.
10. Tighten the four 2 screws "D" (previously loosened in step 3 above) with the 2.5mm hex wrench.
11. After tightening the screws, check convergence. If not aligned, repeat steps 2 through 10 above.

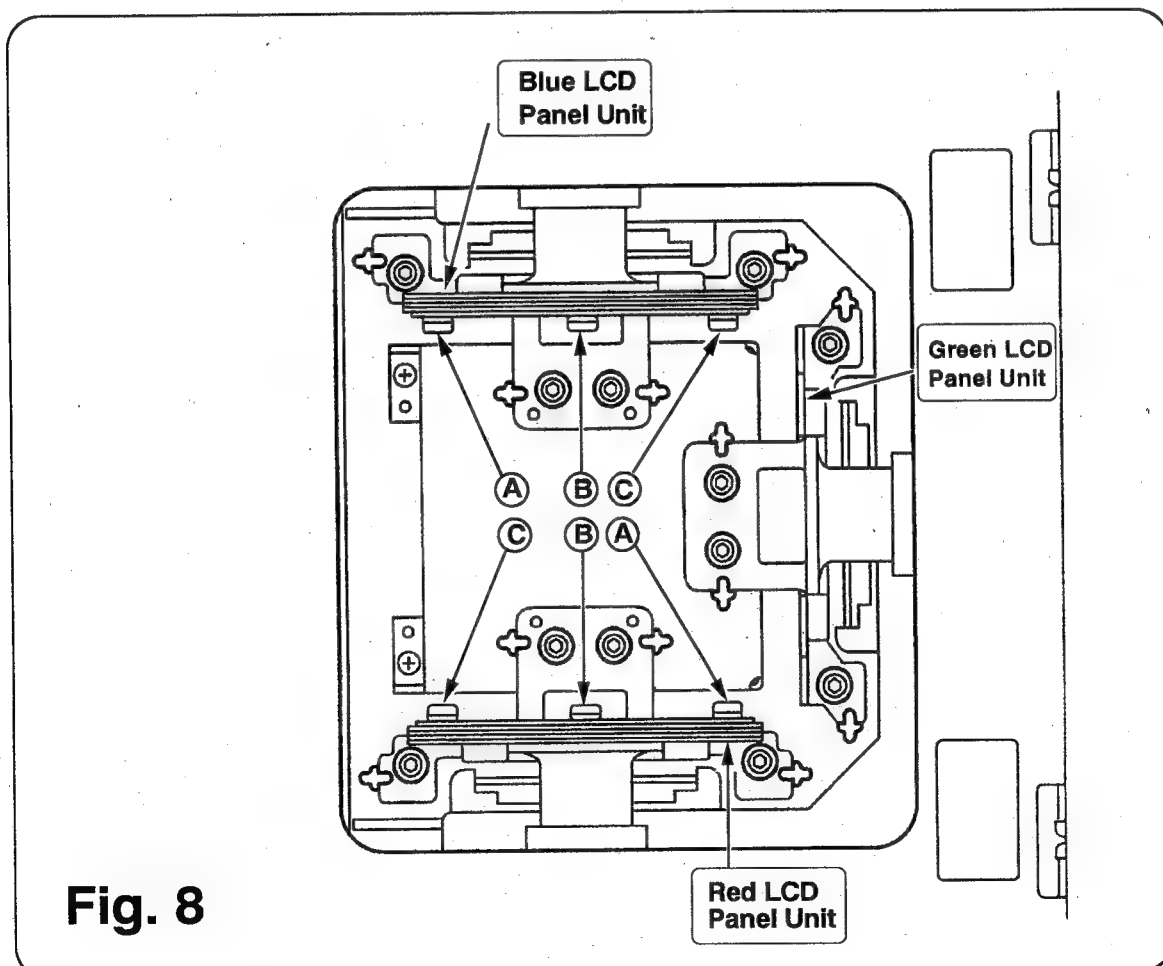
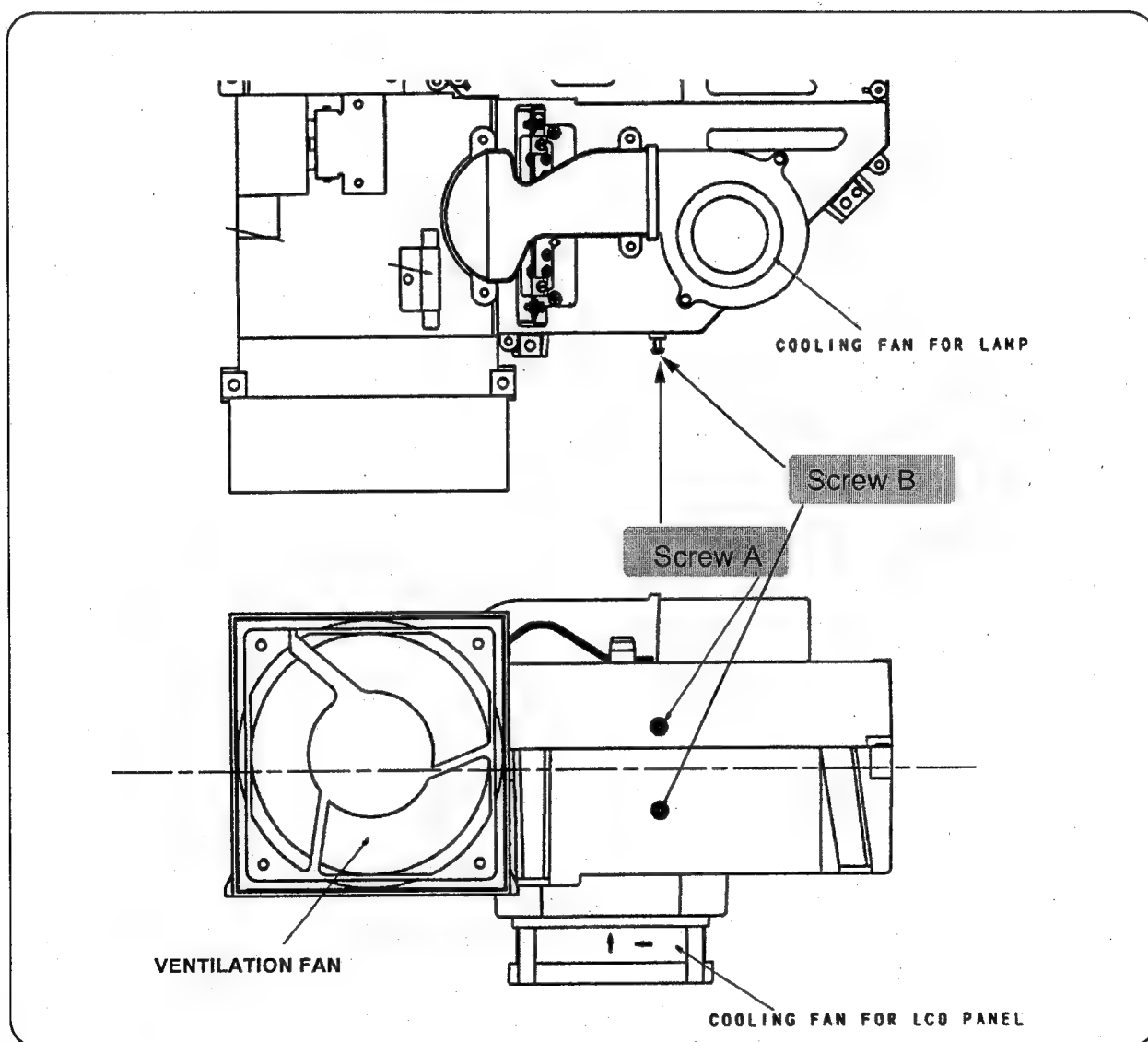


Fig. 8

## 5. Prism P.B.S. adjustment

1. Set size of a screen in about 40 inches.
2. Adjust screws A and B to maximum brightness on screen.





# **【 TROUBLESHOOTING 】**

## **NO POWER**

Refer to next page

### **PERIPHERY OF CHASSIS**

1. Is fuse (F901) blown?
2. Is projection of lamp cover inside broken or not fitting?  
Check the INTER LOCK switch(SW902) and lamp cover.  
SW902 ..... OPEN : abnormal
3. Is thermal switch(SW903) operating?  
If temperatures periphery of lamp is reach 100 °C , turn off the thermal switch.  
SW903 ..... OPEN: abnormal
4. Is thermal switch(SW904) operating?  
If temperatures periphery of LCD panel is reach 55 °C , turn off the thermal switch.  
SW904 ..... OPEN: abnormal

### **MOTHER BOARD**

1. Check that the Vcc-voltage(IC5801 +S5V) is correct.
2. Check that the POWER FAIL signal is correct.  
pin17 of K58A, pin7 of K10B, pin3 of K56B, L : abnormal
3. Check that the LAMP MONITOR signal is correct.  
pin2 of K56C and pin16 of K58A ..... H : abnormal
4. Check that the FAN DRIVE signal is correct.  
pin27 of IC5801, pin4 of K56B ..... H : ON
5. Check that the LAMP ON/OFF signal is correct.  
pin5 of K56B, pin14 of K58A ..... H : ON
6. Check that the POWER ON/OFF signal is correct.  
pin26 of IC5801 ..... H : ON

### **POWER SUB POWER P.F.C.HIC BOARD**

1. Are LAMP POWER indicator(red) and READY indicator(green) light? (Front indicators)  
If the LAMP POWER and READY indicators do not light, check the HOT circuit of primary side and S5V of STANDBY power source circuit.
2. Check the AC 100/200 switching circuit is correct.
3. Check that the FAN DRIVE signal is correct.  
pin4 of K6K ..... L : ON
4. Check that the LAMP ON/OFF signal is correct.  
pin8 of K6E , pin5 of K6K ..... H : ON
5. Check that the POWER FAIL signal is correct.  
pin3 of K6K ..... L : abnormal
6. Check that the STANDBY S5V voltage is correct.
7. Is thermal switch(TSW601) operating?  
If temperatures periphery of P.F.C. circuit is reach 85 °C , turn on the thermal switch.  
Short at 85 °C ..... OPEN: normal /SHORT : abnormal
8. Check the signal at Pin5 of T631.

### **MAIN BOARD**

1. Check that the Vcc-voltage(IC801/IC1801/IC1801 +S5V) is correct.
2. Check that the POWER FAIL signal is correct.  
pin125 of IC801 ..... L : abnormal
3. Check that the TEMP. MONITOR signal is correct.  
pin4 of IC801 and pin3 of K8E ..... L : abnormal
4. Check that the LAMP MONITOR signal is correct.  
pin3 of IC801 and pin16 of K8A ..... H : abnormal
5. Is POWER ON signal in lamp power on/off button input at Pin119 of IC801 ?
6. Is POWER ON signal in remote-control unit input at pin143 of IC801?
7. Check that the LAMP ON/OFF signal is correct.  
pin11 of IC1801, E Q882, pin14 of K8A ..... H : ON

# NO POWER



# **[ TROUBLESHOOTING ]**

Is thermal switch (SW904) operating?  
If temperatures periphery of LCD panel is reach 55 °C, turn off the thermal switch.  
SW904 OPEN: abnormal

Abnormal temperature detection at the periphery of LCD panel

SW904

Is projection of lamp cover inside broken or not fitting?  
Check the INTER LOCK switch (SW902) and lamp cover.  
SW902 OPEN: abnormal

+15V

SW902

Interlock SW

SW903

Abnormal temperature detection at the periphery of LAMP

Is thermal switch (SW903) operating?  
If temperatures periphery of LAMP is reach 100 °C, turn off the thermal switch.  
SW903 OPEN: abnormal

Abnormal temperature detection at the periphery of P.F.C. circuit

TSW60

P.F.C. control

P.F.C.

Abnormal temperature detection at the periphery of chopper circuit

SW702

Chopper control

Chopper

Lamp monitor

SW701

Lamp driver

ASSY. LAMP BALLAST

Abnormal temperature detection at the periphery of lamp drive circuit

LAMP

Lamp power relay

RL601  
RL602

Q661  
Q662

Is thermal switch (TSW601) operating?  
If temperatures periphery of P.F.C. circuit is reach 85 °C, turn on the thermal switch.  
TSW601 OPEN: normal

Is thermal switch (SW702) operating?  
If temperatures periphery of chopper circuit is reach 90 °C, turn off the thermal switch.  
SW702 OPEN: abnormal

Is thermal switch (SW701) operating?  
If temperatures periphery of lamp driver circuit is reach 85 °C, turn on the thermal switch.  
SW701 OPEN: normal

# NO PICTURE

**AV JACK BOARD**

1. Check that the Vcc-voltages(+9V,) are correct.  
(IC3001, IC3021, IC5001,)
2. INPUT ..... Video input 1 K1001  
Check the signal at Pin4 of IC3001.  
Check the signal at Pin3 of IC3001.  
Check the signal at Pin6 of k10SA.

**CG BOARD**

1. Check that the Vcc-voltages(S5V,) are correct.  
(IC2101, IC2102, IC2103, IC2107)
2. INPUT ..... Computer input 1.  
Check the signals at Pin 1, 8, 9, of IC2102.  
Check the signals at Pin 1, 8, 9, of IC2103.
3. Check that the VIDEO/CG SELECT signal is correct.  
Pin16 of IC2103 ..... CG : L / AV : H  
Base of Q2102 ..... CG : H / AV : L

**VIDEO BOARD**

1. Check the Vcc-voltages at all IC.
2. Check the signal at pin6 of K10S.
3. Check the signal at TP4001. (pin3 of IC4001).
4. Check the signals at pin23, 25 of IC4001. (Y & C signal)
5. Check the signals at pin88, 96 of IC7001. (Y & C signal)
6. Check the signals at pin83, 84 of IC7001. (Y & C signal)
7. Check the signals at pin55, 57 of IC1001. (Y & C signal)
8. Check the signals at pin22, 24, 26 of IC101. (RGB signal)
9. Check the signals at pin7, 8, 9 of K10C. (RGB signal)

**MAIN & MAIN SUB BOARD**

1. Check the Vcc-voltages at all IC.
2. Check the signals at TP201, 202, 203.
3. Check the signals at TP241, 261, 281.
4. Check the signals at TP401, 402, 403, 1401, 1402, 1403.
5. Check the signals at TP501, 531, 561.
6. Check the signals at TP2501, 2502, 2503.
7. Are various signals and drive voltage feeding to LCD panel?

**NO SOUND****AV JACK BOARD**

1. Check that the Vcc-voltage(Pin16 of IC5001 +9V) is correct.
2. INPUT ..... AUDIO INPUT 1  
Check the signals at Pin4, 15 of IC5001.  
Check the signals at Pin6, 8 of K10UA.

**INTERFACE BOARD**

1. Check that the Vcc-voltage( +9V) is correct.
2. INPUT ..... COMPUTER AUDIO INPUT 1  
Check the signals at Pin1, 3 of IC5101.  
Check the signals at Pin4, 15 of IC5101.  
Check the signals at Pin2, 19 of IC5121.  
Check the signals at Pin7, 14 of IC5121.  
Check the signal at Pin9 of IC5121. (SDA)  
Check the signal at Pin10 of IC5121. (SCL)  
Check the signals at Pin5, 7 of K28P.

**VIDEO BOARD**

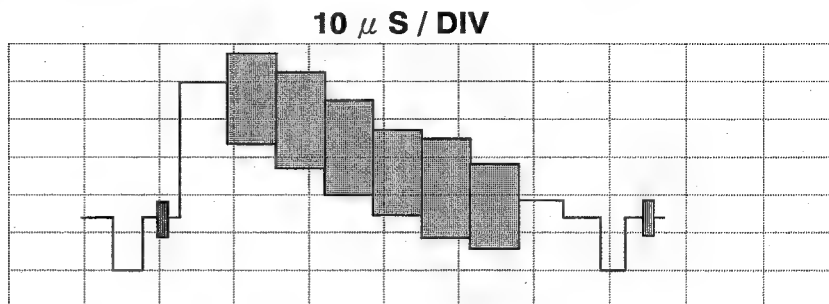
1. Check that the Vcc-voltage( +9V) is correct.
2. INPUT ..... AUDIO INPUT 1 ( AV jack board)  
Check the signals at Pin2, 19 of IC5031.  
Check the signals at Pin7, 14 of IC5031.  
Check the signal at Pin9 of IC5031. (SDA)  
Check the signal at Pin10 of IC5031. (SCL)  
Check the signals at Pin9, 10 of K10D.

**MOTHER BOARD**

1. Check that the Vcc-voltage( +9V,+17V) is correct.
2. Check the signals at Pin1, 3 of IC002. (AV)
3. Check the signals at Pin2, 5 of IC002. (CG)
4. Check the signals at Pin4, 15 of IC002. (OUTPUT)
5. Check the signals at Pin2, 5 of IC001. (audio amp input)
6. Check the signals at Pin7, 10 of IC001.  
(audio amp. out put)
7. Check that the AUDIO MUTE signal is correct.
8. Check that the SP-OFF signal is correct.
9. Check the signal at Pin19 of IC5801. (AV/CG switch)
10. Check the signal at Pin10 of IC002. (AV/CG switch)

# WAVE FORMS

INPUT SIGNAL  
NTSC COLOR BAR SIGNAL  
1V P-P

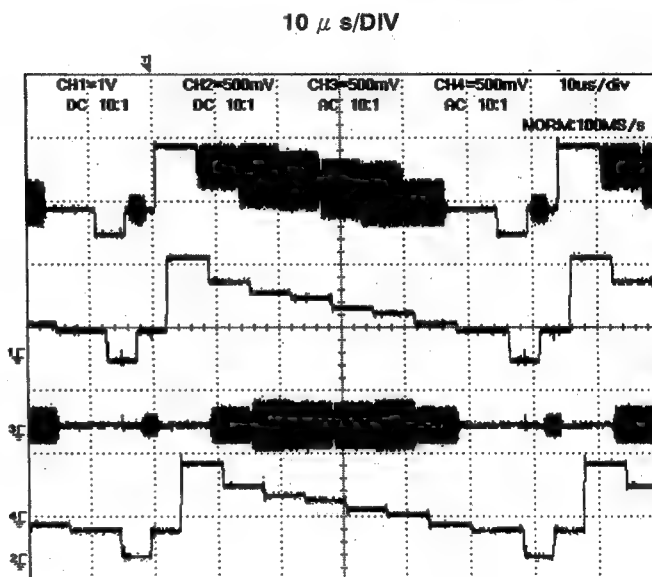


TP1001	1V/DIV	
TP101		

TP7001	0.5V/DIV	Y
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TP7002	0.5V/DIV	C
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TP102	0.5V/DIV	Y
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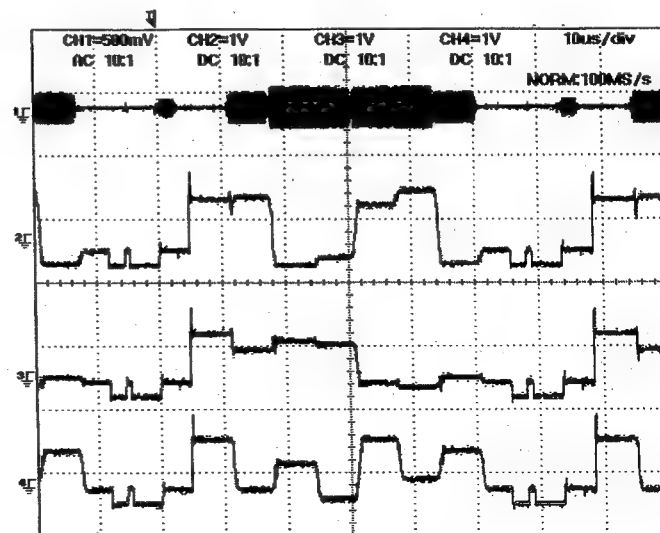


TP103	0.5V/DIV	C
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K10C ⑨	1V/DIV	RED
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K10C ⑧	1V/DIV	GREEN
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K10C ⑦	1V/DIV	BLUE
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# WAVE FORMS

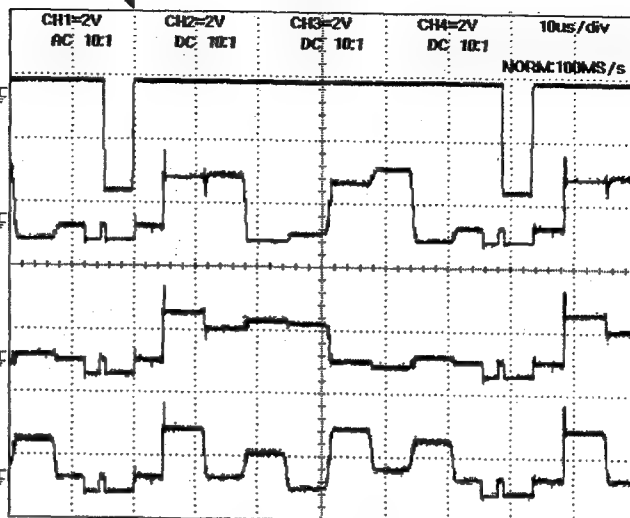
10  $\mu$  s/DIV

TP4171 2V/DIV HSYNC

TP201 2V/DIV RED

TP202 2V/DIV GREEN

TP203 2V/DIV BLUE

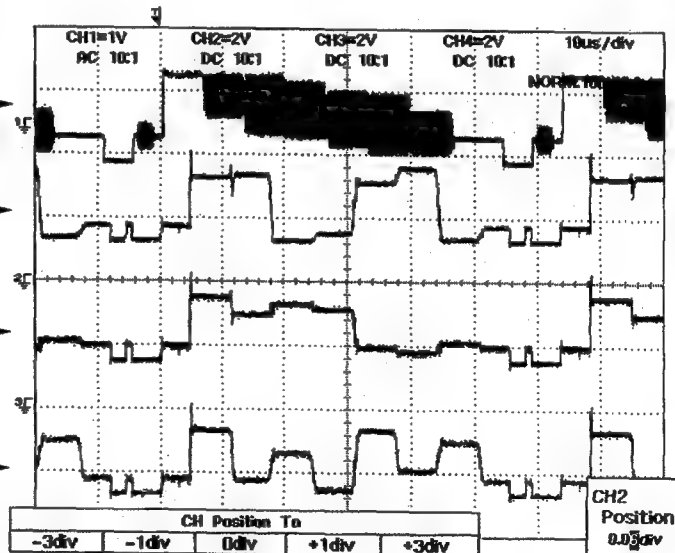


TP4001 TP101 1V/DIV

TP241 2V/DIV RED

TP261 2V/DIV GREEN

TP281 2V/DIV BLUE



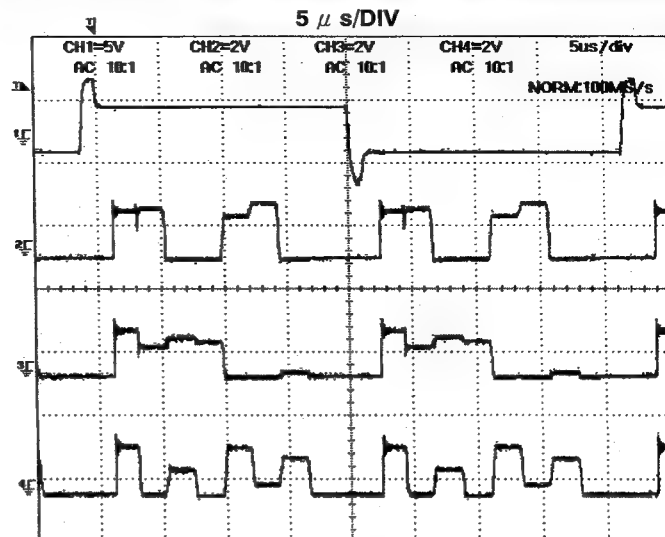
# WAVE FORMS

TP2504 5V/DIV PSIG

TP401 2V/DIV RED

TP402 2V/DIV GREEN

TP403 2V/DIV BLUE

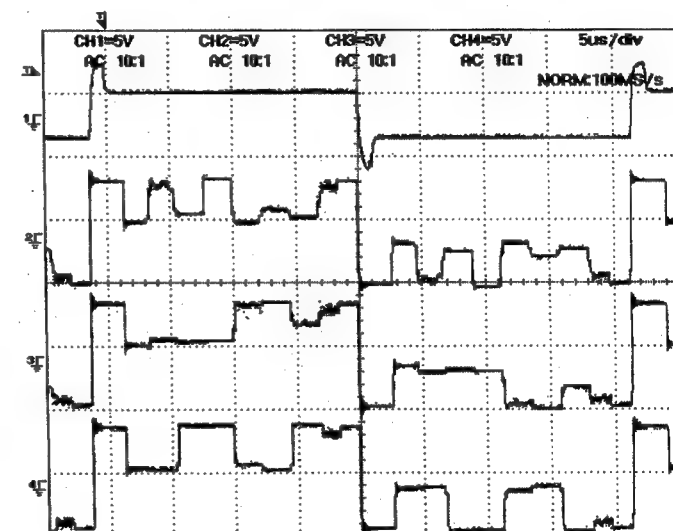


TP2504 5V/DIV PSIG

TP561 TP2503 5V/DIV BLUE

TP531 TP2502 5V/DIV GREEN

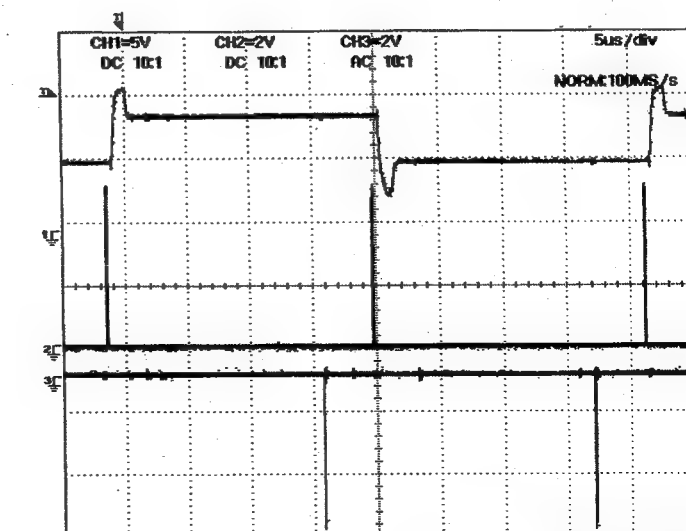
TP501 TP2501 5V/DIV RED



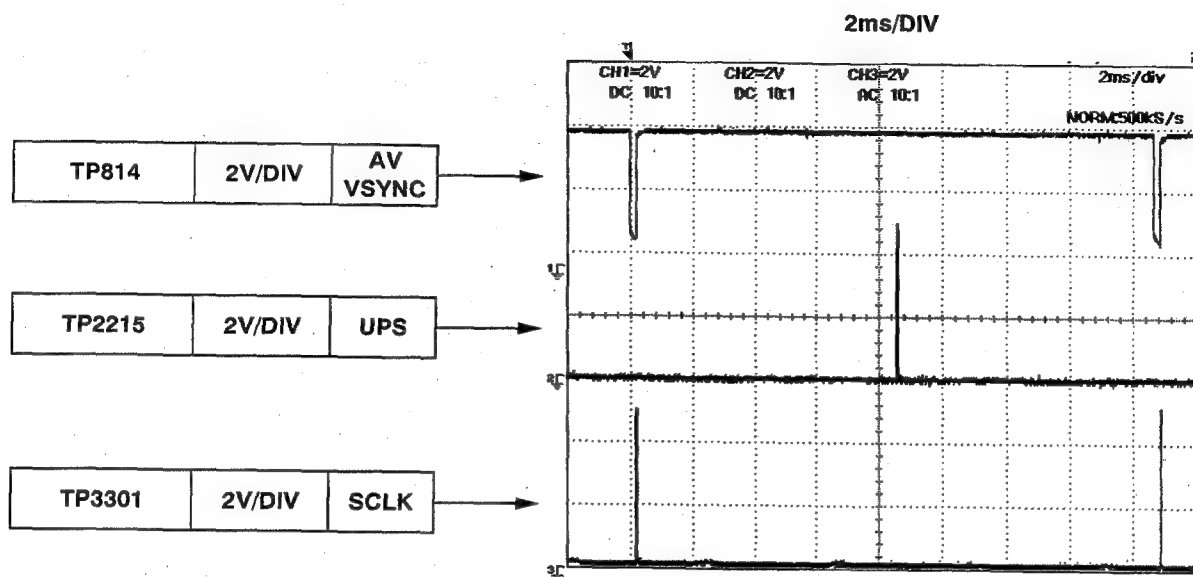
TP2504 5V/DIV PSIG

TP3302 2V/DIV CKC

TP2214 2V/DIV HRST



# WAVE FORMS



## OUT LINE

[illegible]

# CPU INPUT/OUTPUT PORT FUNCTIONS

PIN NO.	FUNCTION	I/O	
1	TIMING CONTROLLER STROBE SIGNAL	TO IC2201(116), IC3351(115)	O
2	SECAM ID SIGNAL INPUT	FROM IC102(18)	I
3	LAMP MONITOR DET. INPUT	FROM ASS'Y LAMP BALLAST	I
4	TEMP. MONITOR DET. INPUT	FROM TEMP. SENSOR	I
5	LENS SHIFT CENTER DET. INPUT	FROM LENS SHIFT SWITCH	I
6	VSS GND		
7	ADDRESS 0	FROM CG-GSYNC	I
8	ADDRESS 1	TO IC802	O
9	ADDRESS 2	↓	O
10	ADDRESS 3		O
11	ADDRESS 4	↓	O
12	VCC 5V		
13	ADDRESS 5	TO IC802	O
14	VSS GND		
15	ADDRESS 8	TO IC802	O
16	ADDRESS 7	↓	O
17	ADDRESS 8		O
18	ADDRESS 9		O
19	ADDRESS 10		O
20	ADDRESS 11		O
21	ADDRESS 12		O
22	ADDRESS 13		O
23	ADDRESS 14		O
24	ADDRESS 15	↓	O
25	ADDRESS 16		O
26	VCC 5V		
27	ADDRESS 17	TO IC802	O
28	VSS GND		
29	USB1-STROBE OUTPUT SIGNAL	TO IC1801(3)	O
30	USB2-STROBE OUTPUT SIGNAL	TO IC1811(3)	O
31	DRAM-RAS OUTPUT SIGNAL	TO IC5402(32)	O
32	DRAM-CAS OUTPUT SIGNAL	TO IC5402(33)	O
33	FREEZE (TO FPGA)	TO IC1251(33)	O
34	V-SYNC INPUT (LCD PANEL DRIVE)	FROM IC3301(9)	I
35	VSS GND		
36	V-SYNC INPUT	FROM CG-VSYNC	I
37	ADDRESS 18	TO IC802	O
38	ADDRESS 19	TO IC802	O
39	FREEZE 2 (TO TIMING CONTROLLER)	TO IC2201(48)	O
40	VCC 5V		
41	FINE SYNC SW	TO IC3354(1)	O
42	VSS GND		
43	READ SIGNAL (OUTPUT)	TO IC802	O
44	N.C		O
45	IC ON/OFF SWITCH	TO IC803 804 2206 2204 2203	O
46	VCO-ST	TO IC1201(4)	O
47	WRIGHT SIGNAL (OUTPUT)	TO IC802	O
48	NOT USED		O
49	NOT USED		I
50	CHIP SELECT	TO MEMORY IC802	O

# CPU INPUT/OUTPUT PORT FUNCTIONS

PIN NO.	FUNCTION	I/O	
51	SAMPLE-HOLED STROVE SIGNAL		O
52	FINE SYNC STROVE SIGNAL		O
53	DIGITAL FILTER STROVE SIGNAL	TO IC301 IC331 IC351(96),	O
54	DAC-LOAD SIGNAL	TO IC3301(6)	O
55	VSS GND	TO IC1401(1)	
56	DARAS-STROVE SIGNAL		O
57	FINE SYNC DATA INPUT		I
58	IIC BUS 1 CLOCK (SCL)	IC806	I/O
59	IIC BUS 1 DATA (SDA)	IC806	I/O
60			I/O
61	VSS GND		
62	OSD TIMING SIGNAL		I
63	5V		
64	IIC BUS 2 CLOCK		I/O
65	IIC BUS 2 DATA		I/O
66	USB INTERFACE SIGNAL 4	IC1801 IC1811	I/O
67	USB INTERFACE SIGNAL 3	IC1801 IC1811	I/O
68	USB INTERFACE SIGNAL 2	IC1801 IC1811	I/O
69	USB INTERFACE SIGNAL 1	IC1801 IC1811	I/O
70	CPU/USB MOUSE SWITCH 1	TO IC1801	O
71	VSS GND		
72	CPU/USB MOUSE SWITCH 2	TO IC1801	O
73	DATA BUS 15	IC802 IC5402(74)~(91)	I/O
74	DATA BUS 14		I/O
75	DATA BUS 13		I/O
76	DATA BUS 12		I/O
77	VCC 5V		
78	DATA BUS 11	IC802 IC5402(74)~(91)	I/O
79	VSS GND		
80	DATA BUS 10	IC802 IC5402(74)~(91)	I/O
81	DATA BUS 9		I/O
82	DATA BUS 8		I/O
83	DATA BUS 7		I/O
84	DATA BUS 6		I/O
85	VCC 5V		
86	DATA BUS 5	IC802 IC5402(74)~(91)	I/O
87	VSS GND		
88	DATA BUS 4	IC802 IC5402(74)~(91)	I/O
89	DATA BUS 3		I/O
90	DATA BUS 2		I/O
91	DATA BUS 1		I/O
92	DATA BUS 0		I/O
93	VSS GND		
94	XTAL		I
95	MODE 3		I
96	EXTAL		O
97	MODE 2		I
98	NONMASK		I
99	FWP FLASH MEMORY WRIGHT MODE		I
100	FLASH MODE		O



# CPU INPUT/OUTPUT PORT FUNCTIONS

PIN NO.	FUNCTION	I/O	
101	DARAS MODE SELECT SIGNAL		O
102	MODE 1		I
103	MODE2		I
104	VCC PLL		
105	PLL FILTER		
106	GND PLL		
107			
108	RESET	FROM IC807	I
109	USB DATA 0	IC1801 1811	I/O
110	USB DATA 1	IC1801 1811	I/O
111	USB DATA 2	IC1801 1811	I/O
112	VCC 5V		
113	USB DATA 3	IC1801 1811	I/O
114	USB DATA 4	IC1801 1811	I/O
115	USB DATA 5	IC1801 1811	I/O
116	USB DATA 6	IC1801 1811	I/O
117	VSS GND		
118	TOP CONTROLS KEY INPUT 1 (A/D)	FROM TOP CONTROLS	I
119	TOP CONTROLS KEY INPUT 2 (A/D)	FROM TOP CONTROLS	I
120	TOP CONTROLS KEY INPUT 3 (A/D)	FROM TOP CONTROLS	I
121			I
122	OPTION		I
123	S-VIDEO DET. SIGNAL INPUT	FROM S-VIDEO JACK	I
124	VSS GND		
125	POWER FAIL SIGNAL INPUT		I
126	LENS SHIFT TOP or BOTTOM DET. SIGNAL	FROM LENS SHIFT SWITCH	I
127	5V AV-REF		
128	5V AVCC		
129	VSS GND		
130			I
131	EXP. I/O DATA OUTPUT	TO IC1801,1811,5801(2)	O
132	EXP. I/O CLOCK OUTPUT	TO IC1801,1811,5801(3)	O
133	RS232C INPUT	FROM SERIAL PORT K1016	I
134	RS232C OUTPUT	TO SERIAL PORT K1016	O
135	VCC 5V		
136	N.C.		
137	USB DATA 7		I/O
138	EXP. I/O SYSTEM RESET SIGNAL OUTPUT	TO IC5801(6)	O
139	TIMING CONTROLLER DATA INPUT		I
140	SERIAL DAC DATA OUTPUT		O
141	VSS GND		
142	EXP. I/O STROBE SIGNAL	TO IC5801(4)	O
143	REMOTE CONTROL SIGNAL INPUT		I
144	SERIAL DAC CLOCK OUTPUT		O

## 【 MAINTENANCE 】

### 【 CLEANING METHODS 】

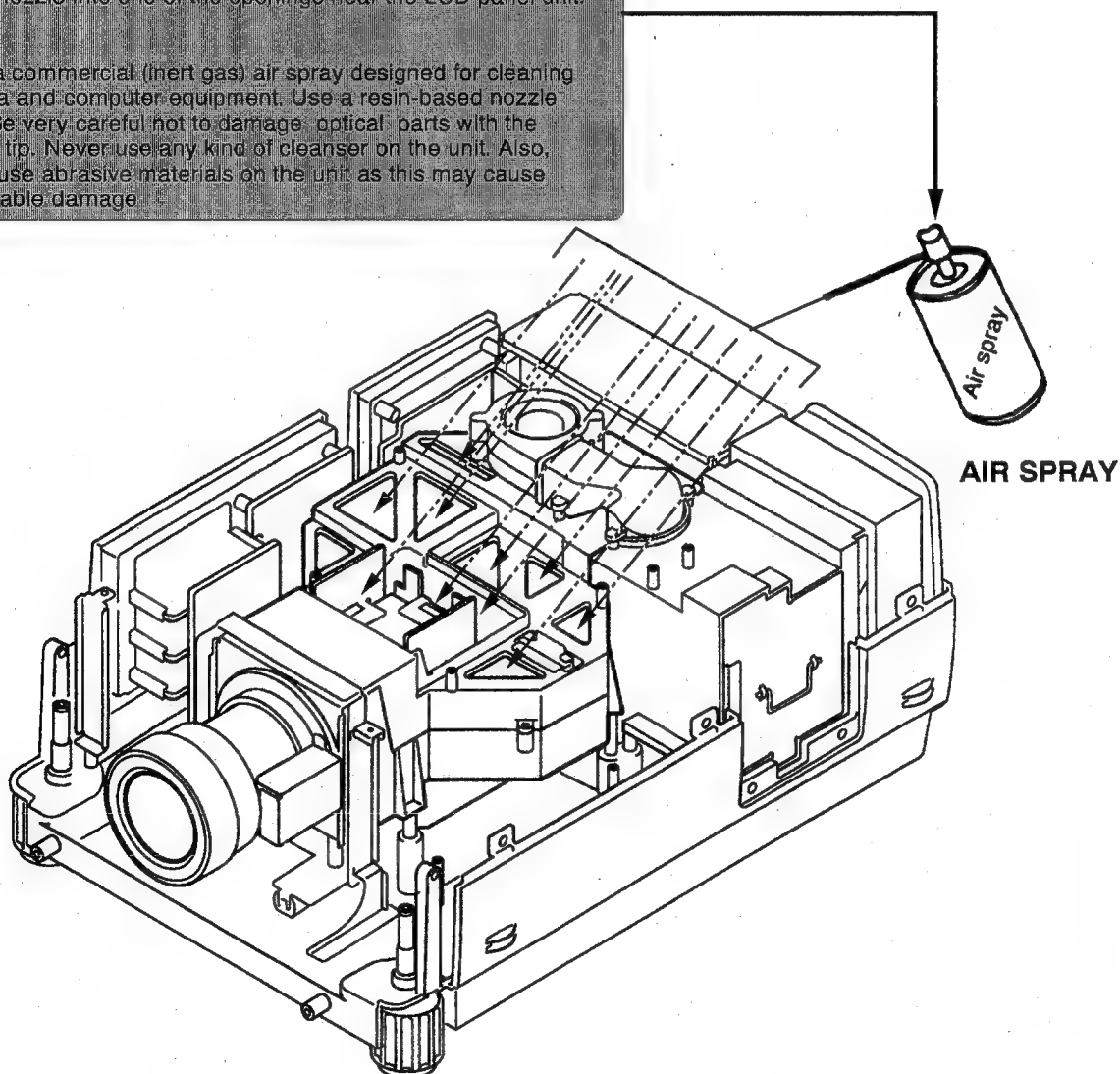
- After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarizing plate, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of the unit.
- Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

#### 1. AIR SPRAY CLEANING METHOD

- 1-1. Remove dust particles from the mirror and lens by inserting the air spray nozzle into the opening on the top of the optical unit.
- 1-2. Clean the LCD panel and polarizing plate by inserting the air spray nozzle into one of the openings near the LCD panel unit.

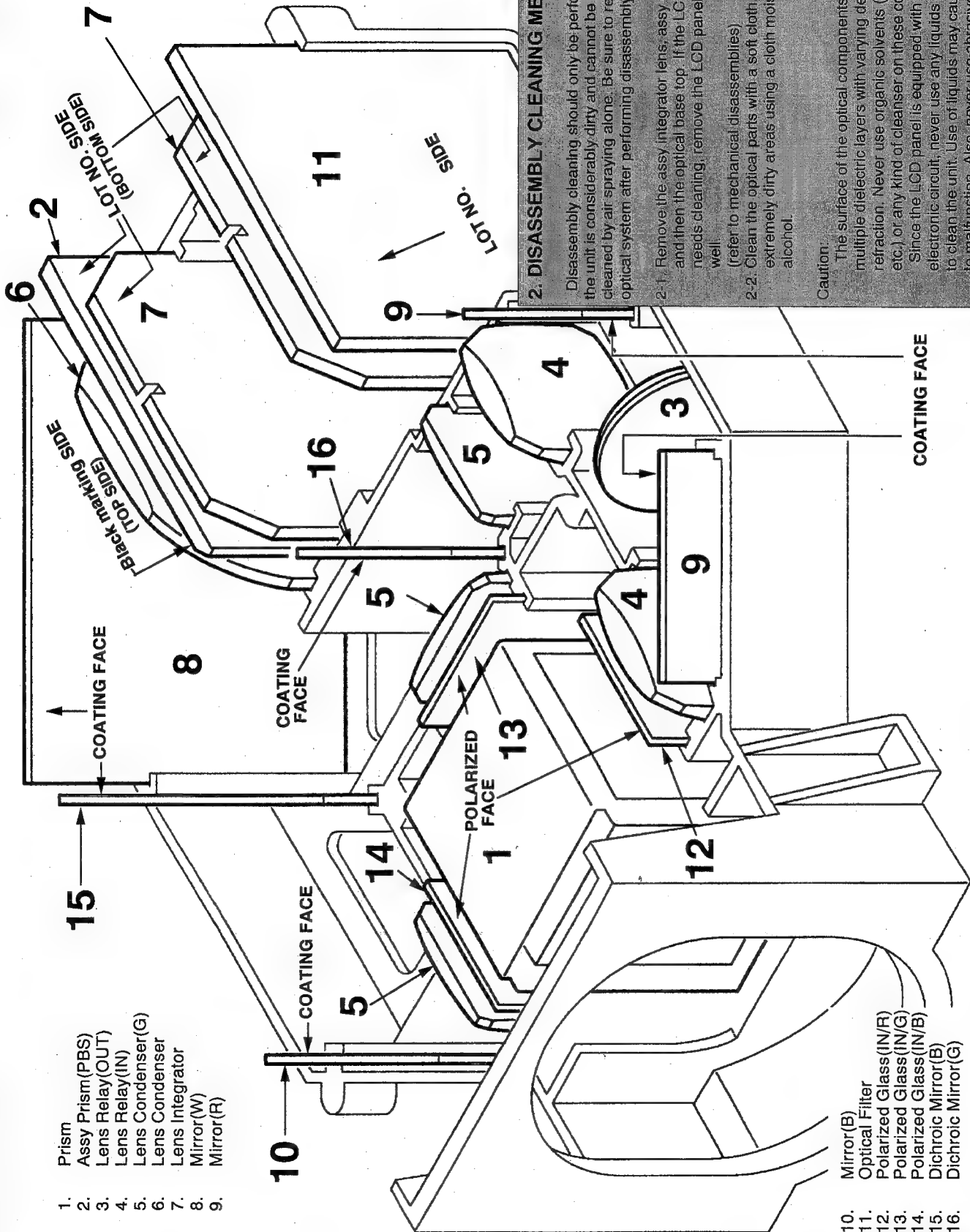
##### Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.



# **( MAINTENANCE )**

## **2. DISASSEMBLY CLEANING METHOD**



- 1. Prism
- 2. Assy Prism(PBS)
- 3. Lens Relay(OUT)
- 4. Lens Relay(IN)
- 5. Lens Condenser(G)
- 6. Lens Condenser
- 7. Lens Integrator
- 8. Mirror(W)
- 9. Mirror(R)

- 10. Mirror(B)
- 11. Optical Filter
- 12. Polarized Glass(IN/R)
- 13. Polarized Glass(IN/G)
- 14. Polarized Glass(IN/B)
- 15. Dichroic Mirror(B)
- 16. Dichroic Mirror(G)

## **2. DISASSEMBLY CLEANING METHOD**

Disassembly cleaning should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone. Be sure to readjust the optical system after performing disassembly cleaning.

2-1. Remove the assy integrator lens, assy relay lens and then the optical base top. If the LCD panel needs cleaning, remove the LCD panel unit as well.

2-2. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

### **Caution:**

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinners, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquids may cause the unit to malfunction. Also, never use abrasive materials on the unit as this may cause irreparable damage.

## 【 MAINTENANCE 】

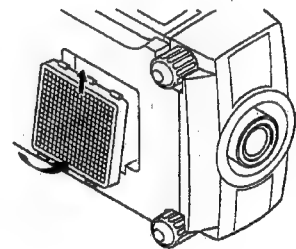
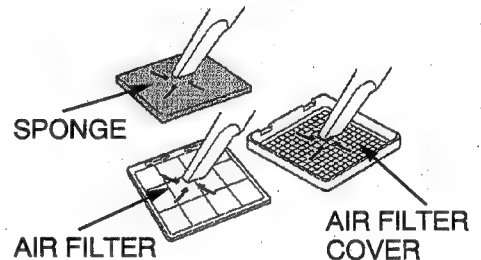
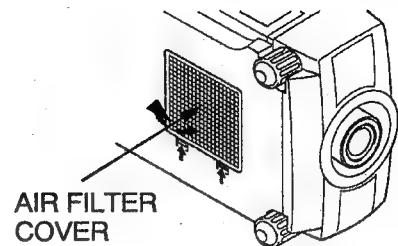
### AIR FILTER CARE AND CLEANING

To clean the air filter, follow the cleaning procedures below:

1. Turn the LAMP POWER ON/OFF button OFF.
2. Remove the air filter cover.
3. Remove the air filter and sponge from the filter cover.
4. Clean the air filter with a vacuum cleaner.
5. Replace the air filter and sponge. Make sure that air filter cover is fully inserted.



Do not clean with water. It may damage the air filter.  
Do not operate the projector without air filter.



### RECOMMENDATION

**TO ENJOY PICTURE IMAGE, USE THE PROJECTOR IN THE CLEAN ENVIRONMENT. USAGE IN THE CLEAN ENVIRONMENT IS RECOMMENDED.**

When using under the dusty or smoky conditions, dust may accumulate on the liquid crystal panel and lens inside it, and the picture projected may be stained or blurred with dust.

### CLEANING THE PROJECTION LENS

Follow these steps to clean the projection lens:

1. Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth.  
Avoid using an excessive amount of cleaner.  
Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.
2. Lightly wipe the cleaning cloth over the lens.
3. If you don't intend to use the projector immediately, replace the lens cover.

## [Notes on Schematic Diagram]

### PRODUCT SAFETY NOTICE

THE COMPONENTS DESIGNATED BY A MARK (  $\triangle$  ) IN THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A MARK NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

### SERVICE NOTES;

1. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8") from circuit board.
2. Keep wires away from high voltage and high temperature components.

### SCHEMATIC DIAGRAM

Specification of capacitor and resistors will be shown with coded symbols, reading code symbols following the chart and notes. Some capacitor and resistors will be shown directly with values and no other information. Detailed information on each capacitor and resistor will be shown in the list.

#### NOTE;

**DO NOT REPLACE OR ORDER RESISTOR AND CAPACITOR PARTS FOLLOWING THE SPECIFICATIONS SHOWN IN THE SCHEMATIC DIAGRAMS.**

**ALWAYS CHECK FOR THE CORRECT SPECIFICATIONS IN THE PARTS LIST. ESPECIALLY FOR CRITICAL COMPONENT MARKED  $\triangle$ . SPECIAL ATTENTION MUST BE GIVEN TO CRITICAL COMPONENTS.**

Read resistor codes as follows:

1. All resistance values are indicated in ohms: K=1,000. M=1,000,000.
2. Read wattage, material and tolerance codes following the chart.

Read capacitor codes as follows:

1. For capacitors identified with  $\dashv$ , values less than 1 are expressed in  $\mu F$ , values more than 1 are in pF.
2. For capacitors (electrolytic) identified with  $\dashv$ , values are expressed in  $\mu F$ .

Voltage and waveforms were taken using a video color bar signal (1V p-p).

Voltages were taken with a high-impedance voltmeter.

## [Notes on Schematic Diagram]

# Capacitor and Resistors Code Chart

Read description in the Capacitor and Resistor as follows:

(Revised May / 1998)

### CAPACITOR

16 K K 0.47 BA

Characteristic  
Rated value

Tolerance Symbols					
Static capacitance of 10PF or less					
A: Non-designated	B: $\pm 0.1\text{PF}$	C: $\pm 0.25\text{PF}$	D: $\pm 0.5\text{PF}$	F: $\pm 1\text{PF}$	G: $\pm 2\text{PF}$
H: $\pm 0.1 - 0\text{PF}$	L: $\pm 0 - 0.1\text{PF}$	R: $\pm 0.25 - 0\text{PF}$	S: $\pm 0 - 0.25\text{PF}$	E: $\pm 0 - 1\text{PF}$	
J: $\pm 5\%$	K: $\pm 10\%$	M: $\pm 20\%$			
Note: J, K, and M are used only for tubular Ceramic Capacitors					
Static capacitance of more than 10PF					
A: Non-designated	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$	G: $\pm 2\%$
E: $\pm 2.5\%$	H: $\pm 3\%$	J: $\pm 5\%$	K: $\pm 10\%$	L: $\pm 15\%$	M: $\pm 20\%$
N: $\pm 30\%$	P: $\pm 100 - 0\%$	Q: $\pm 30 - 10\%$	R: $\pm 20 - 0\%$	T: $\pm 50 - 10\%$	U: $\pm 75 - 10\%$
V: $\pm 20 - 10\%$	W: $\pm 100 - 10\%$	X: $\pm 40 - 20\%$	Y: $\pm 150 - 10\%$	Z: $\pm 80 - 20\%$	

Material		
C	CERAMIC	Temperature compensating ceramic
K	CERAMIC	High dielectric rate ceramic
B	CERAMIC	Semiconductor ceramic
Z	MT - PAPER	Metallized paper
F	POLYESTER	Polyester
G	MT - POLYEST	Metallized polyester
N	POLYPRO	Polypropylene
M	MT - POLYPRO	Metallized polypropylene
Y	COMPO FILM	Composite film
H	MT - COMPO	Metallized composite film
S	STYRENE	Styrol
T	TA - SOLID	Tantalum oxide solid electrolytic
A	AL - SOLID	Aluminium solid electrolytic
E	ELECT	Aluminum foil electrolytic
P	NP - ELECT	Non - polarized electrolytic
U	OS - SOLID	Aluminium solid capacitors with organic semiconductive electrolyte
V	POS - SOLID	Polymerized organic semiconductor
D	DL - ELECT	Electric double layer electrolytic
J	AL - SOLID	Aluminium manganese wind solid
L	PPS - FILM	Polyphenylene sulfide film
Q	MT - PPS - FILM	Metallized Polyphenylene sulfide film
R	MT - PEN - FILM	Metallized polyethylenenaphthalate film
X	CAPACITOR	Other

Rated Voltage

### FIXED RESISTER

1/10 G J 100K

Rated value, ohms : K: X1,000 ohms. M: X1,000,000 ohms

Tolerance Symbols:					
A: $\pm 0.05\%$	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$	G: $\pm 2\%$
J: $\pm 5\%$	K: $\pm 10\%$	M: $\pm 20\%$	P: $\pm 5 - 15\%$	Z: Use when 0 ohm	

Material		
D	CARBON	Carbon film fixed
N	MT - FILM	Metal film fixed
S	OXIDE - MT	Oxide metal film fixed
C	SOLID	Solid
G	MT - GLAZE	Metal glaze type fixed
W	WIRE WOUND	power type covered wiring fixed
H	CERAMIC RES	Ceramic fixed
F	FUSIBLE RES	Fusible
X	RESISTER	Used for "others"

Rated Wattage



## 【 Parts List 】

## 【 Electrical Parts List 】

Product safety should be considered when a component replacement is made in any area of a Projector. Components indicated by a  $\Delta$  mark in this parts list and the schematic diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No., Part No., and descriptions.

Read description in the Capacitor and Resister as follows:

( Revised May / 1998 )

### CAPACITOR

CERAMIC 100P K 50V

Rated Voltage

#### Tolerance Symbols

Static capacitance of 10PF or less

A: Non-designated B:  $\pm 0.1PF$  C:  $\pm 0.25PF$  D:  $\pm 0.5PF$  F:  $\pm 1PF$  G:  $\pm 2PF$

H:  $\pm 0.1-0PF$  L:  $\pm 0-0.1PF$  R:  $\pm 0.25-0PF$  S:  $\pm 0-0.25PF$  E:  $\pm 0-1PF$

J:  $\pm 5\%$  K:  $\pm 10\%$  M:  $\pm 20\%$

Note: J, K, and M are used only for tubular Ceramic Capacitors

Static capacitance of more than 10PF

A: Non-designated B:  $\pm 0.1\%$  C:  $\pm 0.25\%$  D:  $\pm 0.5\%$  F:  $\pm 1\%$  G:  $\pm 2\%$

E:  $\pm 2.5\%$  H:  $\pm 3\%$  J:  $\pm 5\%$  K:  $\pm 10\%$  L:  $\pm 15\%$  M:  $\pm 20\%$

N:  $\pm 30\%$  P:  $\pm 100-0\%$  Q:  $\pm 30-10\%$  R:  $\pm 20-0\%$  T:  $\pm 50-10\%$  U:  $\pm 75-10\%$

V:  $\pm 20-10\%$  W:  $\pm 100-10\%$  X:  $\pm 40-20\%$  Y:  $\pm 150-10\%$  Z:  $\pm 80-20\%$

Rated value: P=Pico farad, U=Micro farad

Material			
CERAMIC	Temperature compensating ceramic	High dielectric rate ceramic	Semiconductor ceramic
MT-PAPER	Metallized paper		
POLYESTER	Polyester		
MT-POLYEST	Metallized polyester		
POLYPRO	Polypropylene		
MT-POLYPRO	Metallized polypropylene		
COMPO FILM	Composite film		
MT-COMPO	Metallized composite film		
STYRENE	Styrol		
TA-SOLID	Tantalum oxide solid electrolytic		
AL-SOLID	Aluminium solid electrolytic		
ELECT	Aluminum foil electrolytic		
NP-ELECT	Non-polarized electrolytic		
OS-SOLID	Aluminium solid capacitors with organic semiconductive electrolyte		
POS-SOLID	Polymerized organic semiconductor		
DL-ELECT	Electric double layer electrolytic		
AL-SOLID	Aluminium manganese wind solid		
PPS-FILM	Polyphenylene sulfide film		
MT-PPS-FILM	Metallized Polyphenylene sulfide film		
MT-PEN-FILM	Metallized polyethylenenaphthalate film		
CAPACITOR	Other		

### FIXED RESISTER

CARBON 4.7K J A 1/4W

Rated Wattage

NOTE: What are called "cement resistors" are noncombustible, so are indicated as "General" (symbol A), not "Flame retardant (including noncombustible)" (symbol B).

#### Performance Symbols:

A: General B: Flame retardant (including noncombustible)

Z: Low noise ( Less than 100Kohms :  $0.3 \mu V/V$ , 100Kohms to 1Mohm :  $0.5 \mu V/V$ , More than 1Mohm :  $1.0 \mu V/V$  )

C~Y: Temperature characteristics

T:  $\pm 10ppm/^{\circ}C$  U:  $\pm 25ppm/^{\circ}C$  C:  $\pm 50ppm/^{\circ}C$  D:  $\pm 100ppm/^{\circ}C$  E:  $200ppm/^{\circ}C$  F:  $\pm 250ppm/^{\circ}C$

G:  $\pm 350ppm/^{\circ}C$  H:  $\pm 1000ppm/^{\circ}C \pm 10\%$  W:  $\pm 1200ppm/^{\circ}C \pm 10\%$  Y:  $\pm 1400ppm/^{\circ}C \pm 10\%$

J:  $\pm 2000ppm/^{\circ}C \pm 10\%$  K:  $\pm 2400ppm/^{\circ}C \pm 10\%$  L:  $\pm 2700ppm/^{\circ}C \pm 10\%$

M:  $\pm 3000ppm/^{\circ}C \pm 10\%$  N:  $\pm 3300ppm/^{\circ}C \pm 10\%$  P:  $\pm 3600ppm/^{\circ}C \pm 10\%$

Q:  $\pm 3900ppm/^{\circ}C \pm 10\%$  R:  $\pm 4200ppm/^{\circ}C \pm 10\%$  S:  $\pm 4300ppm/^{\circ}C \pm 10\%$

V:  $\pm 4500ppm/^{\circ}C \pm 10\%$  X:  $\pm 800ppm/^{\circ}C \pm 150ppm/^{\circ}C$

#### Tolerance Symbols:

A:  $\pm 0.05\%$  B:  $\pm 0.1\%$  C:  $\pm 0.25\%$  D:  $\pm 0.5\%$  F:  $\pm 1\%$  G:  $\pm 2\%$

J:  $\pm 5\%$  K:  $\pm 10\%$  M:  $\pm 20\%$  P:  $\pm 5-15\%$  Z: Use when 0 ohm

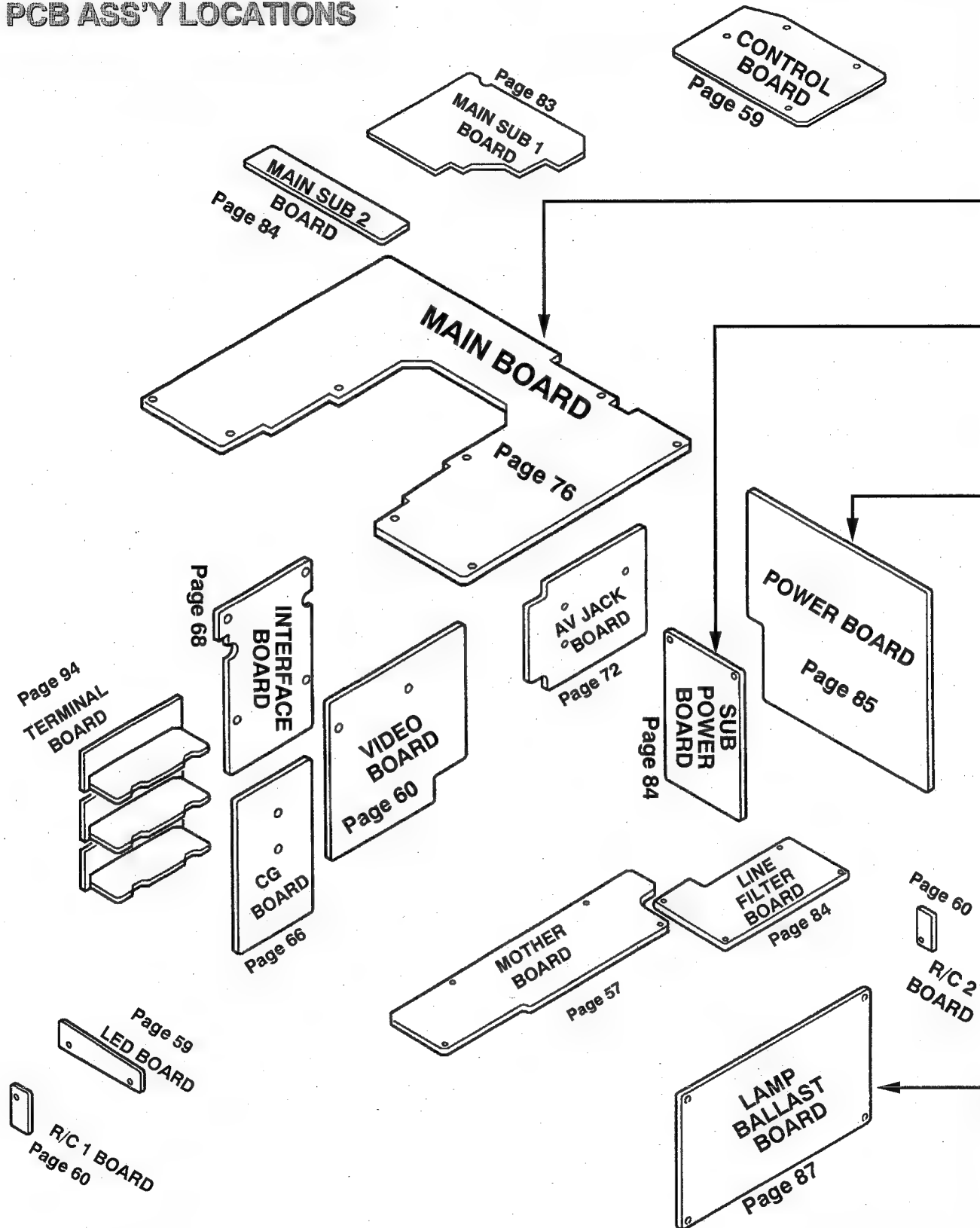
Rated value, ohms : K: X1,000 ohms. M: X1,000,000 ohms

Material	
CARBON	Carbon film fixed
MT-FILM	Metal film fixed
OXIDE-MT	Oxide metal film fixed
SOLID	Solid
MT-GLAZE	Metal glaze type fixed
WIRE WOUND	power type covered wiring fixed
CERAMIC RES	Ceramic fixed
FUSIBLE RES	Fusible
RESISTER	Used for "others"



# ELECTRICAL PARTS LIST

## PCB ASS'Y LOCATIONS



## ELECTRICAL PARTS LIST

### CAUTION TO REPLACE ASSY BOARD

### CAUTION TO REPLACE ASSY SUB POWER

AFTER REPLACING THE PARTS IN THE +12V DC CIRCUIT,  
READJUST THE +12V DC VOLTAGE.  
(REFER TO ELECTRICAL ADJUSTMENTS)

### CAUTION TO REPLACE ASSY POWER

- ★ AFTER REPLACING THE PARTS IN THE P. F. C. CIRCUIT,  
READJUST THE P. F. C. OUTPUT VOLTAGE.
- ★ AFTER REPLACING THE PARTS IN THE +6V DC CIRCUIT,  
READJUST THE +6V DC VOLTAGE.
- ★ AFTER REPLACING THE PARTS IN THE +15V DC CIRCUIT,  
READJUST THE +15V DC VOLTAGE.  
(REFER TO ELECTRICAL ADJUSTMENTS)

### CAUTION TO REPLACE ASSY LAMP BALLAST

IF THERE IS A PROBLEM IN THE ASSY LAMP BALLAST, ONLY  
USE DESIGNATED REPLACEMENT PARTS FOR BEST PERFORMANCE  
AND SAFETY.

### CAUTION TO REPLACE ASSY MAIN & IC806.

△ CAUTION: Do not replace IC806 unreasonably!!

IC806 (EPROM) memorizes the data adjusted at Service Mode, and should not be replaced except for the case of defective product.

Lamp Illumination Time, Data No. 37 of Service Mode, is memorized in IC806 to indicate the span of Lamp Life. When IC806 is replaced, Lamp Illumination Time is reset at the same time.

(Lamp Illumination Time can not be set to the previous value.)

#### ● Caution to replace IC806.

When IC is replaced with new one, CPU write in initial data in IC806. Initial data is not the same data as Factory Initial Data, and the further adjustments and input as follows are required.

Data No. 00, 02 ~ 0D, 10, 19 of Service Mode should be adjusted (refer to service adjustments and Electrical adjustments).

Data except the data above is required to input the value on Data chart of Service Mode (refer to service adjustments).

Lamp Illumination Time is reset to the initial value.

#### ● Caution to replace Main Assy (In the case IC806 is not damaged)

When Main Assy is replaced, IC806 on new Main Assy should be replaced with the one on previous Main Assy. After replacement, adjust and check the data in IC as follow.

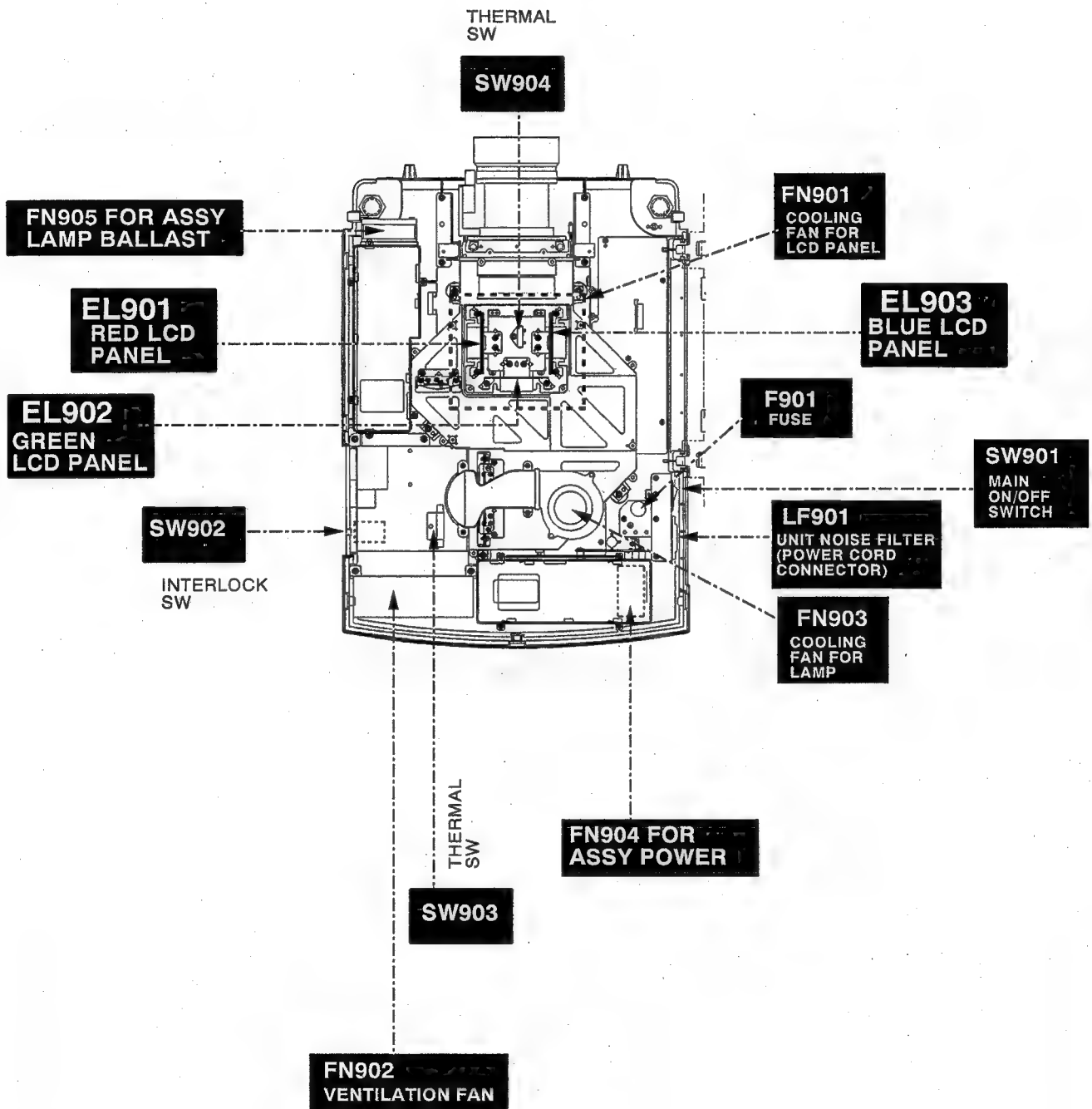
Readjust the adjust NO. 5~20 of electrical adjustments (refer to Electrical adjustments and service adjustments).

Check the service mode data NO. 01, 0D~0F, 13~18, 1B~36, 38~5C, with the value on Data chart of Service Mode (refer to service adjustments).

Lamp Illumination Time keep the value as before.

## ELECTRICAL PARTS LIST

### OUT OF CIRCUIT BOARD



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
OUT OF CIRCUIT BOARD			C011	403 155 9902	NP-ELECT 2.2U M 50V
COIL			C012	403 155 9902	NP-ELECT 2.2U M 50V
△LF901	645 030 4200	UNIT, NOISE FILTER	C013	403 193 7809	ELECT 100U M 16V
LF901A	610 012 5926	TERMINAL	C014	403 069 9500	CERAMIC 0.01U Z 50V
MISCELLANEOUS			C016	403 069 9500	CERAMIC 0.01U Z 50V
△LP901	610 270 6796	COMPL, OPTICAL LAMP-MGMA	C017	403 163 8409	ELECT 47U M 16V
EL901	645 027 6491	LCD(LCX017ALQ-7 R)	C018	403 193 7809	ELECT 100U M 16V
EL902	645 027 6507	LCD(LCX017ALR-7 G)	C019	403 192 5905	CERAMIC 0.1U K 25V
EL903	645 027 6514	LCD(LCX017ALP-6 B)	C021	403 192 5905	CERAMIC 0.1U K 25V
FN901	645 026 9219	MOTOR, FAN DC 3.5W	C022	403 199 9708	ELECT 470U M 25V
FN902	645 026 9226	MOTOR, FAN DC 7W	C023	403 046 5907	ELECT 330U M 25V
FN903	645 026 9233	MOTOR, FAN DC 2.5W	C024	403 046 5907	ELECT 330U M 25V
FN904	645 029 2545	MOTOR, FAN DC 1.44W	C026	403 199 9708	ELECT 470U M 25V
	645 030 8345	MOTOR, FAN DC 1.92W	C1601	403 194 4609	ELECT 470U M 16V
FN905	645 029 2552	MOTOR, FAN DC 1.44W	C1602	403 069 9500	CERAMIC 0.01U Z 50V
△F901	423 025 1201	FUSE 250V 8A	C1603	403 069 9500	CERAMIC 0.01U Z 50V
△F901A	645 023 3777	HOLDER, FUSE	C1611	403 194 4609	ELECT 470U M 16V
SP901	645 005 6536	SPEAKER, 8	C1612	403 069 9500	CERAMIC 0.01U Z 50V
SP902	645 005 6536	SPEAKER, 8	C1613	403 069 9500	CERAMIC 0.01U Z 50V
△SW901	645 028 5516	SWITCH, POWER 2P-2TX2	C1621	403 194 4609	ELECT 470U M 16V
SW902	645 028 6001	SWITCH, PUSH 2P-2TX1	C1622	403 069 9500	CERAMIC 0.01U Z 50V
△SW903	645 030 0745	SWITCH, REED	C1623	403 069 9500	CERAMIC 0.01U Z 50V
△SW904	645 029 6413	SWITCH, REED	C1631	403 194 4609	ELECT 470U M 16V
△W901	610 270 6888	CABLE, LANP	C1632	403 069 9500	CERAMIC 0.01U Z 50V
W902	610 273 1774	CORD, ID-CONNECTOR MGMA	C1633	403 194 4609	ELECT 470U M 16V
W903	610 273 1781	CORD, ID-CONNECTOR MGMA	C1634	403 069 9500	CERAMIC 0.01U Z 50V
			C5601	403 148 0404	ELECT 1000U M 25V
610 272 2352	ASSY, PWB, MOTHER MGMA			403 301 7103	ELECT 1000U M 25V
1AA0B10C1600A			C5602	403 148 0404	ELECT 1000U M 25V
TRANSISTOR				403 301 7103	ELECT 1000U M 25V
Q001	405 014 4509	TR 2SC2412K T146 R	C5603	403 199 9708	ELECT 470U M 25V
Q002	405 014 4509	TR 2SC2412K T146 R	C5604	403 069 9500	CERAMIC 0.01U Z 50V
Q003	405 014 4509	TR 2SC2412K T146 R	C5606	403 069 9500	CERAMIC 0.01U Z 50V
Q004	405 014 4509	TR 2SC2412K T146 R	C5607	403 148 0404	ELECT 1000U M 25V
Q006	405 014 4509	TR 2SC2412K T146 R		403 301 7103	ELECT 1000U M 25V
Q5601	405 052 8002	TR 2SB1274-R	C5608	403 148 0404	ELECT 1000U M 25V
	405 052 8101	TR 2SB1274-S		403 301 7103	ELECT 1000U M 25V
Q5602	405 014 4509	TR 2SC2412K T146 R	C5609	403 147 9606	ELECT 1000U M 10V
Q5603	405 052 8002	TR 2SB1274-R		403 301 2306	ELECT 1000U M 10V
	405 052 8101	TR 2SB1274-S	C5611	403 119 7609	ELECT 2200U M 10V
Q5604	405 014 4509	TR 2SC2412K T146 R		403 313 5906	ELECT 2200U M 10V
Q5606	405 144 6503	TR 2SK2312	C5612	403 069 9500	CERAMIC 0.01U Z 50V
Q5607	405 014 4509	TR 2SC2412K T146 R	C5613	403 119 7609	ELECT 2200U M 10V
Q5801	405 014 4509	TR 2SC2412K T146 R		403 313 5906	ELECT 2200U M 10V
Q5802	405 014 4509	TR 2SC2412K T146 R	C5614	403 119 7609	ELECT 2200U M 10V
Q5803	405 014 4509	TR 2SC2412K T146 R		403 313 5906	ELECT 2200U M 10V
Q5804	405 002 0308	TR 2SA1037K T146 R	C5616	403 069 9500	CERAMIC 0.01U Z 50V
Q5806	405 014 4509	TR 2SC2412K T146 R	C5617	403 119 7609	ELECT 2200U M 10V
				403 313 5906	ELECT 2200U M 10V
INTEGRATED CIRCUIT			C5618	403 069 9500	CERAMIC 0.01U Z 50V
IC001	409 017 7208	IC LA4261	C5619	403 193 7809	ELECT 100U M 16V
IC002	409 211 7301	IC MC14053BFL	C5621	403 193 7809	ELECT 100U M 16V
	409 051 2900	IC TC4053BF-TP1	C5624	403 194 4609	ELECT 470U M 16V
IC1601	409 114 4803	IC LB1641	C5626	403 119 7609	ELECT 2200U M 10V
IC1611	409 114 4803	IC LB1641		403 313 5906	ELECT 2200U M 10V
IC1621	409 114 4803	IC LB1641	C5801	403 316 5408	CERAMIC 1U K 10V
IC5601	409 367 2809	IC BA178M09T			
IC5801	409 403 6204	IC M66010GP	RESISTOR		
CAPACITOR			R001	401 037 5707	MT-GLAZE 100K JA 1/10W
C001	403 155 9902	NP-ELECT 2.2U M 50V	R002	401 037 5707	MT-GLAZE 100K JA 1/10W
C002	403 155 9902	NP-ELECT 2.2U M 50V	R003	401 037 5707	MT-GLAZE 100K JA 1/10W
C003	403 155 9902	NP-ELECT 2.2U M 50V	R004	401 037 5707	MT-GLAZE 100K JA 1/10W
C004	403 155 9902	NP-ELECT 2.2U M 50V	R006	401 037 5707	MT-GLAZE 100K JA 1/10W
C006	403 189 2405	ELECT 10U M 16V	R007	401 038 3603	MT-GLAZE 3.3K JA 1/10W
C007	403 314 5905	CERAMIC 0.47U K 16V	R008	401 038 3603	MT-GLAZE 3.3K JA 1/10W
C009	403 189 2405	ELECT 10U M 16V	R009	401 037 5707	MT-GLAZE 100K JA 1/10W
			R011	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
			R012	401 038 7700	MT-GLAZE 5.6K JA 1/10W
			R013	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
			R014	401 038 7700	MT-GLAZE 5.6K JA 1/10W

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R016	401 037 5202	MT-GLAZE 100 JA 1/10W	R5814	401 037 5202	MT-GLAZE 100 JA 1/10W
R017	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R5816	401 037 5202	MT-GLAZE 100 JA 1/10W
R018	401 038 0800	MT-GLAZE 22K JA 1/10W	R5817	401 038 0800	MT-GLAZE 22K JA 1/10W
R019	401 037 9309	MT-GLAZE 18K JA 1/10W	R5818	401 038 0800	MT-GLAZE 22K JA 1/10W
R020	401 037 5608	MT-GLAZE 10K JA 1/10W	R5819	401 038 0800	MT-GLAZE 22K JA 1/10W
R021	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R5821	401 038 0800	MT-GLAZE 22K JA 1/10W
R022	401 037 9309	MT-GLAZE 18K JA 1/10W	R5822	401 038 0800	MT-GLAZE 22K JA 1/10W
R023	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R5823	401 038 0800	MT-GLAZE 22K JA 1/10W
R024	401 038 2002	MT-GLAZE 270 JA 1/10W	R5824	401 038 0800	MT-GLAZE 22K JA 1/10W
R026	401 038 0602	MT-GLAZE 220 JA 1/10W	R5826	401 038 0800	MT-GLAZE 22K JA 1/10W
R027	401 037 5608	MT-GLAZE 10K JA 1/10W	R5827	401 038 0800	MT-GLAZE 22K JA 1/10W
R028	401 037 5608	MT-GLAZE 10K JA 1/10W	R5828	401 038 0800	MT-GLAZE 22K JA 1/10W
R029	401 038 2002	MT-GLAZE 270 JA 1/10W	R5829	401 038 0800	MT-GLAZE 22K JA 1/10W
R031	401 090 2002	MT-GLAZE 3.9 JA 1/10W	R5831	401 038 0800	MT-GLAZE 22K JA 1/10W
R034	401 090 2002	MT-GLAZE 3.9 JA 1/10W	R5832	401 038 0800	MT-GLAZE 22K JA 1/10W
R036	401 037 5608	MT-GLAZE 10K JA 1/10W	R5833	401 038 0800	MT-GLAZE 22K JA 1/10W
R037	401 038 7700	MT-GLAZE 5.6K JA 1/10W	R5841	401 038 0800	MT-GLAZE 22K JA 1/10W
R038	401 038 7601	MT-GLAZE 560 JA 1/10W	R5842	401 038 0800	MT-GLAZE 22K JA 1/10W
R039	401 038 7601	MT-GLAZE 560 JA 1/10W	R5843TM	401 025 8208	CARBON 22K JA 1/6W
R041	401 037 5400	MT-GLAZE 1K JA 1/10W	R5844	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R042	401 180 8402	OXIDE-MT 0.47 JA 2W	R5846	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R044	401 180 8402	OXIDE-MT 0.47 JA 2W			
R1601	401 038 3603	MT-GLAZE 3.3K JA 1/10W	COIL		
R1602	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L001	645 007 8118	INDUCTOR, 390U K
R1603	401 037 5400	MT-GLAZE 1K JA 1/10W	L5601	645 007 8118	INDUCTOR, 390U K
R1604	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L5602	645 007 7968	INDUCTOR, 10U M
R1611	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L5603	645 007 7968	INDUCTOR, 10U M
R1612	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L5604	645 007 7968	INDUCTOR, 10U M
R1613	401 037 5400	MT-GLAZE 1K JA 1/10W	L5606	645 007 7968	INDUCTOR, 10U M
R1614	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L5607	645 007 7968	INDUCTOR, 10U M
R1621	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L5608	645 007 7968	INDUCTOR, 10U M
R1622	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L5609	645 007 7968	INDUCTOR, 10U M
R1623	401 037 5400	MT-GLAZE 1K JA 1/10W			
R1624	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	DIODE		
R1626	401 038 7700	MT-GLAZE 5.6K JA 1/10W	D001	407 071 0807	ZENER DIODE DZD15X-TA
R5601	401 238 4400	MT-GLAZE 2.7K JA 1/3W		407 071 0906	ZENER DIODE DZD15Y-TA
R5602	401 238 4202	MT-GLAZE 1.5K JA 1/3W		407 175 3001	ZD 02CZ15X(TE85R)
R5603	401 037 5608	MT-GLAZE 10K JA 1/10W		407 189 6005	ZD 02CZ15Y(TE85R)
R5604	401 038 6406	MT-GLAZE 4.7K JA 1/10W	D002	407 071 0807	ZENER DIODE DZD15X-TA
R5608	401 238 4400	MT-GLAZE 2.7K JA 1/3W		407 071 0906	ZENER DIODE DZD15Y-TA
R5609	401 238 4202	MT-GLAZE 1.5K JA 1/3W		407 175 3001	ZD 02CZ15X(TE85R)
R5611	401 037 5608	MT-GLAZE 10K JA 1/10W		407 189 6005	ZD 02CZ15Y(TE85R)
R5612	401 038 6406	MT-GLAZE 4.7K JA 1/10W	D003	407 071 0807	ZENER DIODE DZD15X-TA
R5613	401 067 4206	OXIDE-MT 33 JA 2W		407 071 0906	ZENER DIODE DZD15Y-TA
R5614	401 064 6302	OXIDE-MT 10 JA 2W		407 175 3001	ZD 02CZ15X(TE85R)
R5616	401 037 8005	MT-GLAZE 15K JA 1/10W		407 189 6005	ZD 02CZ15Y(TE85R)
R5617	401 037 5707	MT-GLAZE 100K JA 1/10W	D004	407 071 0807	ZENER DIODE DZD15X-TA
R5621	401 037 5608	MT-GLAZE 10K JA 1/10W		407 071 0906	ZENER DIODE DZD15Y-TA
R5623	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 3001	ZD 02CZ15X(TE85R)
R5624	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 189 6005	ZD 02CZ15Y(TE85R)
R5626	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	D006	407 071 6403	ZENER DIODE DZD5.1X-TA
R5627	401 038 3603	MT-GLAZE 3.3K JA 1/10W		407 071 6502	ZENER DIODE DZD5.1Y-TA
R5628	402 079 4208	FUSIBLE RES 1.5 JH 1/10W		407 071 6601	ZENER DIODE DZD5.1Z-TA
R5631	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 175 3308	ZD 02CZ5.1X(TE85R)
R5632	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 175 3407	ZD 02CZ5.1Y(TE85R)
R5633	401 259 1501	MT-GLAZE 2.2 JA 1/3W		407 175 3506	ZD 02CZ5.1Z(TE85R)
R5634	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	D007	407 004 8009	DIODE DSB015-TB
R5636	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	D1601	407 071 6502	ZENER DIODE DZD5.1Y-TA
R5638	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 175 3407	ZD 02CZ5.1Y(TE85R)
R5639	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	D1602	407 004 8009	DIODE DSB015-TB
R5802	401 038 7809	MT-GLAZE 56K JA 1/10W	D1603TM	407 012 4406	DIODE 1SS133
R5803	401 038 0800	MT-GLAZE 22K JA 1/10W	D1611	407 071 6502	ZENER DIODE DZD5.1Y-TA
R5804	401 038 0800	MT-GLAZE 22K JA 1/10W		407 175 3407	ZD 02CZ5.1Y(TE85R)
R5806	401 038 0800	MT-GLAZE 22K JA 1/10W	D1612	407 004 8009	DIODE DSB015-TB
R5807	401 038 0800	MT-GLAZE 22K JA 1/10W	D1613TM	407 012 4406	DIODE 1SS133
R5808	401 037 5608	MT-GLAZE 10K JA 1/10W	D1621	407 071 0104	ZENER DIODE DZD12Y-TA
R5809	401 038 0800	MT-GLAZE 22K JA 1/10W		407 175 2806	ZD 02CZ12Y(TE85R)
R5811	401 038 0701	MT-GLAZE 2.2K JA 1/10W	D1622	407 004 8009	DIODE DSB015-TB
R5812	401 037 5202	MT-GLAZE 100 JA 1/10W	D1633TM	407 012 4406	DIODE 1SS133
R5813	401 038 0701	MT-GLAZE 2.2K JA 1/10W	D5601	407 004 0706	DIODE DCB015-TB

### 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D5602	407 190 4106	DIODE SFPL-52V		407 071 0203	ZENER DIODE DZD12Z-TA
D5607	407 004 8009	DIODE DSB015-TB		407 199 6200	ZD 02CZ12X(TE85R)
D5608	407 004 8009	DIODE DSB015-TB		407 175 2806	ZD 02CZ12Y(TE85R)
MISCELLANEOUS				407 175 2905	ZD 02CZ12Z(TE85R)
IC001A	610 272 8545	ASSY, HEAT SINK C-MGMA	D6802	407 071 0005	ZENER DIODE DZD12X-TA
IC001B	411 036 5301	SCR PAN+SW+W 3X6		407 071 0104	ZENER DIODE DZD12Y-TA
IC001D	411 004 4404	NUT HEX 3		407 071 0203	ZENER DIODE DZD12Z-TA
	411 054 7509	NUT HEX 3		407 199 6200	ZD 02CZ12X(TE85R)
IC5601A	610 247 2677	HEAT SINK-S7VA		407 175 2806	ZD 02CZ12Y(TE85R)
IC5601B	610 014 5818	WASHER		407 175 2905	ZD 02CZ12Z(TE85R)
IC5601C	411 045 2209	SCR PAN+SW 3X10	D6803	407 071 0005	ZENER DIODE DZD12X-TA
IC5601D	411 004 4404	NUT HEX 3		407 071 0104	ZENER DIODE DZD12Y-TA
	411 054 7509	NUT HEX 3		407 071 0203	ZENER DIODE DZD12Z-TA
	610 272 8606	HEAT SINK D-MGMA		407 199 6200	ZD 02CZ12X(TE85R)
	610 230 8341	RADIATOR MTG BRKT-S6KH		407 175 2806	ZD 02CZ12Y(TE85R)
K01A	645 008 3679	SOCKET, 15P		407 175 2905	ZD 02CZ12Z(TE85R)
K01B	645 008 3679	SOCKET, 15P	D6804	407 071 0005	ZENER DIODE DZD12X-TA
K01C	645 005 8615	SOCKET, 12P		407 071 0104	ZENER DIODE DZD12Y-TA
K01D	645 005 8615	SOCKET, 12P		407 071 0203	ZENER DIODE DZD12Z-TA
K01E	645 005 8592	SOCKET, 10P		407 199 6200	ZD 02CZ12X(TE85R)
K01F	645 005 8592	SOCKET, 10P		407 175 2806	ZD 02CZ12Y(TE85R)
K01G	645 004 2898	PLUG, 3P		407 175 2905	ZD 02CZ12Z(TE85R)
K01H	645 004 2898	PLUG, 3P	MISCELLANEOUS		
K16A	645 004 2898	PLUG, 3P	K68A	645 020 7204	PLUG, 5P
K16B	645 004 2904	PLUG, 4P	SW6801	645 025 3478	SWITCH, PUSH 1P-2TX1
K56A	645 004 2959	PLUG, 9P	SW6802	645 025 3478	SWITCH, PUSH 1P-2TX1
K56B	645 004 2928	PLUG, 6P	SW6803	645 025 3478	SWITCH, PUSH 1P-2TX1
K56D	645 004 2898	PLUG, 3P	SW6804	645 025 3478	SWITCH, PUSH 1P-2TX1
K56E	645 004 2898	PLUG, 3P	SW6806	645 025 3478	SWITCH, PUSH 1P-2TX1
K58A	645 030 6358	PLUG, 32P	SW6807	645 025 3478	SWITCH, PUSH 1P-2TX1
K58B	645 030 6358	PLUG, 32P	SW6808	645 025 3478	SWITCH, PUSH 1P-2TX1
610 272 2369 ASSY, PWB, CONTROL M6MA 1AA0B10C1600B			SW6809	645 025 3478	SWITCH, PUSH 1P-2TX1
CAPACITOR			SW6811	645 025 3478	SWITCH, PUSH 1P-2TX1
C6801	403 070 2606	CERAMIC 0.1U Z 50V	SW6812	645 025 3478	SWITCH, PUSH 1P-2TX1
C6802	403 070 2606	CERAMIC 0.1U Z 50V	SW6813	645 025 3478	SWITCH, PUSH 1P-2TX1
C6803	403 070 2606	CERAMIC 0.1U Z 50V	SW6814	645 025 3478	SWITCH, PUSH 1P-2TX1
RESISTOR			SW6816	645 025 3478	SWITCH, PUSH 1P-2TX1
R6801	401 038 0800	MT-GLAZE 22K JA 1/10W	SW6817	645 025 3478	SWITCH, PUSH 1P-2TX1
R6802	401 037 8005	MT-GLAZE 15K JA 1/10W	SW6818	645 025 3478	SWITCH, PUSH 1P-2TX1
R6803	401 038 7700	MT-GLAZE 5.6K JA 1/10W	SW6819	645 025 3478	SWITCH, PUSH 1P-2TX1
R6804	401 038 6406	MT-GLAZE 4.7K JA 1/10W	SW6821	645 025 3478	SWITCH, PUSH 1P-2TX1
R6806	401 038 2101	MT-GLAZE 2.7K JA 1/10W	SW6822	645 025 3478	SWITCH, PUSH 1P-2TX1
R6807	401 037 9200	MT-GLAZE 1.8K JA 1/10W	610 272 2376 ASSY, PWB, LED M6MA 1AA0B10C1600C		
R6808	401 037 7909	MT-GLAZE 1.5K JA 1/10W	CAPACITOR		
R6809	401 038 6307	MT-GLAZE 470 JA 1/10W	C6851	403 069 9500	CERAMIC 0.01U Z 50V
R6812	401 038 0800	MT-GLAZE 22K JA 1/10W	RESISTOR		
R6813	401 037 8005	MT-GLAZE 15K JA 1/10W	R6851	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6814	401 038 7700	MT-GLAZE 5.6K JA 1/10W	R6852	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6816	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R6853	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6817	401 038 2101	MT-GLAZE 2.7K JA 1/10W	R6854	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6818	401 037 9200	MT-GLAZE 1.8K JA 1/10W	R6856	401 037 5202	MT-GLAZE 100 JA 1/10W
R6819	401 037 7909	MT-GLAZE 1.5K JA 1/10W	DIODE		
R6821	401 038 6307	MT-GLAZE 470 JA 1/10W	D6851	407 196 9907	LED SEL4828A
R6823	401 038 0800	MT-GLAZE 22K JA 1/10W	D6851A	610 273 2955	HOLDER LED-M6MA
R6824	401 037 8005	MT-GLAZE 15K JA 1/10W	D6852	407 196 9709	LED SEL4228C
R6826	401 038 7700	MT-GLAZE 5.6K JA 1/10W	D6853	407 196 9808	LED SEL4428E
R6827	401 038 6406	MT-GLAZE 4.7K JA 1/10W	D6854	407 196 9709	LED SEL4228C
R6828	401 038 2101	MT-GLAZE 2.7K JA 1/10W	MISCELLANEOUS		
R6829	401 037 9200	MT-GLAZE 1.8K JA 1/10W	K68B	645 006 0953	PLUG, 8P
R6831	401 037 7909	MT-GLAZE 1.5K JA 1/10W	K68C	645 005 8226	PLUG, 3P
R6832	401 038 6307	MT-GLAZE 470 JA 1/10W			
DIODE					
D6801	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			



# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	610 272 5506	ASSY, PWB, R/C1 M6MA 1AA0B10C1600D	Q1102	405 014 4509	TR 2SC2412K T146 R
CAPACITOR				405 014 4608	TR 2SC2412K T146 S
C6871	403 316 5408	CERAMIC 1U K 10V		405 015 8704	TR 2SC2812-L6-TB
RESISTOR			Q111	405 015 8902	TR 2SC2812-L7-TB
R6871	401 037 5202	MT-GLAZE 100 JA 1/10W		405 002 0308	TR 2SA1037K T146 R
R6872	401 037 5202	MT-GLAZE 100 JA 1/10W		405 002 0407	TR 2SA1037K T146 S
DIODE				405 002 6706	TR 2SA1179-M6-TB
D6871	407 071 0005	ZENER DIODE DZD12X-TA	Q1151	405 002 6904	TR 2SA1179-M7-TB
	407 071 0104	ZENER DIODE DZD12Y-TA		405 014 4509	TR 2SC2412K T146 R
	407 071 0203	ZENER DIODE DZD12Z-TA		405 014 4608	TR 2SC2412K T146 S
	407 199 6200	ZD 02CZ12X(Te85R)		405 015 8704	TR 2SC2812-L6-TB
	407 175 2806	ZD 02CZ12Y(Te85R)	Q1152	405 015 8902	TR 2SC2812-L7-TB
	407 175 2905	ZD 02CZ12Z(Te85R)		405 014 4509	TR 2SC2412K T146 R
MISCELLANEOUS				405 014 4608	TR 2SC2412K T146 S
A6871	645 025 5854	UNIT, REMOCON RECEIVER	Q1178	405 015 8704	TR 2SC2812-L6-TB
K68D	645 005 8226	PLUG, 3P		405 015 8902	TR 2SC2812-L7-TB
	610 272 5513	ASSY, PWB, R/C2 M6MA 1AA0B10C1600E	Q1190	405 014 4509	TR 2SC2412K T146 R
CAPACITOR				405 014 4608	TR 2SC2412K T146 S
C6881	403 316 5408	CERAMIC 1U K 10V		405 015 8704	TR 2SC2812-L6-TB
RESISTOR			Q1191	405 015 8902	TR 2SC2812-L7-TB
R6881	401 037 5202	MT-GLAZE 100 JA 1/10W		405 014 4509	TR 2SC2412K T146 R
R6882	401 037 5202	MT-GLAZE 100 JA 1/10W		405 014 4608	TR 2SC2412K T146 S
DIODE				405 015 8704	TR 2SC2812-L6-TB
D6881	407 071 0005	ZENER DIODE DZD12X-TA	Q1193	405 015 8902	TR 2SC2812-L7-TB
	407 071 0104	ZENER DIODE DZD12Y-TA		405 014 4509	TR 2SC2412K T146 R
	407 071 0203	ZENER DIODE DZD12Z-TA		405 014 4608	TR 2SC2412K T146 S
	407 199 6200	ZD 02CZ12X(Te85R)		405 015 8704	TR 2SC2812-L6-TB
	407 175 2806	ZD 02CZ12Y(Te85R)	Q1195	405 015 8902	TR 2SC2812-L7-TB
	407 175 2905	ZD 02CZ12Z(Te85R)		405 014 4509	TR 2SC2412K T146 R
MISCELLANEOUS				405 014 4608	TR 2SC2412K T146 S
A6881	645 025 5854	UNIT, REMOCON RECEIVER	Q1197	405 015 8704	TR 2SC2812-L6-TB
K68E	645 005 8226	PLUG, 3P		405 015 8902	TR 2SC2812-L7-TB
	610 272 1300	ASSY, PWB, VIDEO-M6MA 1AA0B10C1610A	Q1198	405 014 4509	TR 2SC2412K T146 R
TRANSISTOR				405 014 4608	TR 2SC2412K T146 S
Q101	405 002 0308	TR 2SA1037K T146 R	Q1199	405 015 8704	TR 2SC2812-L6-TB
	405 002 0407	TR 2SA1037K T146 S		405 015 8902	TR 2SC2812-L7-TB
	405 002 6706	TR 2SA1179-M6-TB	Q148	405 014 4509	TR 2SC2412K T146 R
	405 002 6904	TR 2SA1179-M7-TB		405 014 4608	TR 2SC2412K T146 S
Q102	405 002 0308	TR 2SA1037K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 002 0407	TR 2SA1037K T146 S	Q149	405 015 8902	TR 2SC2812-L7-TB
	405 002 6706	TR 2SA1179-M6-TB		405 002 0308	TR 2SA1037K T146 R
	405 002 6904	TR 2SA1179-M7-TB		405 002 0407	TR 2SA1037K T146 S
Q106	405 035 1105	TR FMW1-T98		405 002 6706	TR 2SA1179-M6-TB
Q107	405 035 1105	TR FMW1-T98		405 002 6904	TR 2SA1179-M7-TB
Q1071	405 002 0308	TR 2SA1037K T146 R	Q151	405 014 4509	TR 2SC2412K T146 R
	405 002 0407	TR 2SA1037K T146 S		405 014 4608	TR 2SC2412K T146 S
	405 002 6706	TR 2SA1179-M6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 002 6904	TR 2SA1179-M7-TB	Q152	405 015 8902	TR 2SC2812-L7-TB
Q1075	405 014 4509	TR 2SC2412K T146 R		405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S		405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB	Q153	405 015 8902	TR 2SC2812-L7-TB
Q108	405 035 1105	TR FMW1-T98		405 014 4509	TR 2SC2412K T146 R
Q1101	405 014 4509	TR 2SC2412K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 014 4608	TR 2SC2412K T146 S	Q154	405 015 8704	TR 2SC2812-L6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 014 4509	TR 2SC2412K T146 R
				405 014 4608	TR 2SC2412K T146 S



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q155	405 015 8704	TR 2SC2812-L6-TB	Q7141	405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 014 4509	TR 2SC2412K T146 R
	405 014 4509	TR 2SC2412K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 014 4608	TR 2SC2412K T146 S	Q7142	405 015 8704	TR 2SC2812-L6-TB
Q156	405 015 8704	TR 2SC2812-L6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 002 0308	TR 2SA1037K T146 R
	405 014 4509	TR 2SC2412K T146 R		405 002 0407	TR 2SA1037K T146 S
Q161	405 014 4608	TR 2SC2412K T146 S	Q7143	405 002 6706	TR 2SA1179-M6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 002 6904	TR 2SA1179-M7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 014 4509	TR 2SC2412K T146 R
	405 014 4509	TR 2SC2412K T146 R	Q7156	405 014 4608	TR 2SC2412K T146 S
Q4019	405 014 4608	TR 2SC2412K T146 S		405 015 8704	TR 2SC2812-L6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 002 0308	TR 2SA1037K T146 R
Q4041	405 014 4509	TR 2SC2412K T146 R	Q7171	405 002 0407	TR 2SA1037K T146 S
	405 014 4608	TR 2SC2412K T146 S		405 002 6706	TR 2SA1179-M6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 002 6904	TR 2SA1179-M7-TB
	405 015 8902	TR 2SC2812-L7-TB	Q7181	405 014 4509	TR 2SC2412K T146 R
Q4042TM	405 011 8500	TR 2SC1740S-R		405 014 4608	TR 2SC2412K T146 S
	405 002 0308	TR 2SA1037K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 002 0407	TR 2SA1037K T146 S		405 015 8902	TR 2SC2812-L7-TB
Q4061	405 002 6706	TR 2SA1179-M6-TB	Q7185	405 002 0308	TR 2SA1037K T146 R
	405 002 6904	TR 2SA1179-M7-TB		405 002 0407	TR 2SA1037K T146 S
	405 002 0308	TR 2SA1037K T146 R		405 002 6706	TR 2SA1179-M6-TB
	405 002 0407	TR 2SA1037K T146 S		405 002 6904	TR 2SA1179-M7-TB
Q4081	405 002 6706	TR 2SA1179-M6-TB	Q7191	405 014 4509	TR 2SC2412K T146 R
	405 002 6904	TR 2SA1179-M7-TB		405 014 4608	TR 2SC2412K T146 S
	405 014 4509	TR 2SC2412K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 014 4608	TR 2SC2412K T146 S		405 015 8902	TR 2SC2812-L7-TB
Q4082	405 015 8704	TR 2SC2812-L6-TB	Q7195	405 014 4509	TR 2SC2412K T146 R
	405 015 8902	TR 2SC2812-L7-TB		405 014 4608	TR 2SC2412K T146 S
	405 002 0308	TR 2SA1037K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 002 0407	TR 2SA1037K T146 S		405 015 8902	TR 2SC2812-L7-TB
Q4083	405 002 6706	TR 2SA1179-M6-TB	INTEGRATED CIRCUIT		
	405 002 6904	TR 2SA1179-M7-TB	IC101	409 404 3509	IC CXA2076Q
	405 014 4509	TR 2SC2412K T146 R	IC102	409 408 4205	IC TDA8395T/N3
	405 014 4608	TR 2SC2412K T146 S	IC103	409 083 8000	IC LA6082M-TP-T1
Q4084	405 015 8704	TR 2SC2812-L6-TB	IC104	409 383 1602	IC TDA4665T/V4-T
	405 015 8902	TR 2SC2812-L7-TB	IC106	409 346 0703	IC MC14577CFL1
	405 002 0308	TR 2SA1037K T146 R	IC107	409 211 7301	IC MC14053BFL
	405 002 0407	TR 2SA1037K T146 S		409 051 2900	IC TC4053BF-TP1
Q4156	405 002 6706	TR 2SA1179-M6-TB	IC1121	409 403 7300	IC EL2386CS-T2
	405 002 6904	TR 2SA1179-M7-TB	IC1151	409 346 0703	IC MC14577CFL1
	405 014 4509	TR 2SC2412K T146 R	IC1161	409 211 7301	IC MC14053BFL
	405 014 4608	TR 2SC2412K T146 S		409 051 2900	IC TC4053BF-TP1
Q4172	405 015 8704	TR 2SC2812-L6-TB	IC1171	409 211 7301	IC MC14053BFL
	405 015 8902	TR 2SC2812-L7-TB		409 051 2900	IC TC4053BF-TP1
	405 002 0308	TR 2SA1037K T146 R	IC1181	409 350 3400	IC LT1253CS8
	405 002 0407	TR 2SA1037K T146 S	IC1191	409 211 7301	IC MC14053BFL
Q4185	405 002 6706	TR 2SA1179-M6-TB		409 051 2900	IC TC4053BF-TP1
	405 002 6904	TR 2SA1179-M7-TB	IC4001	409 418 9504	IC TC9090AF
	405 014 4509	TR 2SC2412K T146 R	IC4002TM	409 241 5407	IC BA178M05T
	405 014 4608	TR 2SC2412K T146 S	IC4041	409 350 3400	IC LT1253CS8
Q5041	405 015 8704	TR 2SC2812-L6-TB	IC4061	409 350 3400	IC LT1253CS8
	405 015 8902	TR 2SC2812-L7-TB	IC4151	409 202 1400	IC MC14538BFR1
	405 014 4509	TR 2SC2412K T146 R	IC4171	409 284 4306	IC LA7217M-TE-R
	405 014 4608	TR 2SC2412K T146 S	IC5031	409 421 8808	IC M62420FP
Q5042	405 015 8704	TR 2SC2812-L6-TB	IC7001	409 421 9508	IC UPD64081BGF-3BA
	405 015 8902	TR 2SC2812-L7-TB	IC7121	409 422 8401	IC LM3940IMP-3.3
	405 014 4509	TR 2SC2412K T146 R	IC7131	410 309 4607	IC UPD424210G5-60-7JF
	405 014 4608	TR 2SC2412K T146 S	CAPACITOR		
Q5051	405 015 8704	TR 2SC2812-L6-TB	C100	403 314 5905	CERAMIC 0.47U K 16V
	405 015 8902	TR 2SC2812-L7-TB	C101	403 192 5905	CERAMIC 0.1U K 25V
	405 014 4509	TR 2SC2412K T146 R	C102	403 192 5905	CERAMIC 0.1U K 25V
	405 014 4608	TR 2SC2412K T146 S			
Q5052	405 015 8704	TR 2SC2812-L6-TB			
	405 015 8902	TR 2SC2812-L7-TB			

# Electrical Parts List

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C103	403 192 5905	CERAMIC 0.1U K 25V	C165	403 314 5905	CERAMIC 0.47U K 16V
C104	403 192 5905	CERAMIC 0.1U K 25V	C166	403 192 5905	CERAMIC 0.1U K 25V
C105	403 314 5905	CERAMIC 0.47U K 16V	C167	403 069 9500	CERAMIC 0.01U Z 50V
C106	403 192 5905	CERAMIC 0.1U K 25V	C168	403 069 9500	CERAMIC 0.01U Z 50V
C107	403 314 5905	CERAMIC 0.47U K 16V	C169	403 175 4505	ELECT 47U M 6.3V
C108	403 229 3508	ELECT 100U M 16V	C171	403 162 4709	ELECT 10U M 16V
C109	403 314 5905	CERAMIC 0.47U K 16V	C172	403 314 5905	CERAMIC 0.47U K 16V
C1101	403 266 8207	NP-ELECT 10U M 16V	C173	403 162 4709	ELECT 10U M 16V
C1102	403 266 8207	NP-ELECT 10U M 16V	C176	403 162 4709	ELECT 10U M 16V
C111	403 069 9500	CERAMIC 0.01U Z 50V	C177	403 192 5905	CERAMIC 0.1U K 25V
C112	403 069 9500	CERAMIC 0.01U Z 50V	C178	403 192 5905	CERAMIC 0.1U K 25V
C1121	403 175 4109	ELECT 22U M 16V	C179	403 192 5905	CERAMIC 0.1U K 25V
C1122	403 021 0200	CERAMIC 3P C 50V	C181	403 162 4709	ELECT 10U M 16V
C1123	403 175 4109	ELECT 22U M 16V	C182	403 314 5905	CERAMIC 0.47U K 16V
C1124	403 021 0200	CERAMIC 3P C 50V	C184	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C1125	403 175 4109	ELECT 22U M 16V	C189	403 069 9500	CERAMIC 0.01U Z 50V
C1126	403 021 0200	CERAMIC 3P C 50V	C191	403 162 4709	ELECT 10U M 16V
C113	403 069 9500	CERAMIC 0.01U Z 50V	C192	403 162 4709	ELECT 10U M 16V
C1131	403 008 7406	CERAMIC 10P D 50V	C197	403 314 5905	CERAMIC 0.47U K 16V
C1133	403 008 7406	CERAMIC 10P D 50V	C198	403 162 4709	ELECT 10U M 16V
C1142	403 008 7406	CERAMIC 10P D 50V	C199	403 316 5408	CERAMIC 1U K 10V
C1150	403 009 5708	CERAMIC 100P J 50V	C4000TM	403 094 0206	OS-SOLID 100U M 16V
C1151	403 175 3300	ELECT 47U M 16V	C4001	403 069 5601	CERAMIC 0.01U K 50V
C1152	403 192 5905	CERAMIC 0.1U K 25V	C4002	403 229 3508	ELECT 100U M 16V
C1154	403 009 5708	CERAMIC 100P J 50V	C4003	403 069 5601	CERAMIC 0.01U K 50V
C1156	403 175 3300	ELECT 47U M 16V	C4004	403 269 5906	CERAMIC 0.22U K 16V
C1157	403 192 5905	CERAMIC 0.1U K 25V	C4005	403 069 5601	CERAMIC 0.01U K 50V
C1158	403 162 4709	ELECT 10U M 16V	C4006	403 069 5601	CERAMIC 0.01U K 50V
C116	403 069 5601	CERAMIC 0.01U K 50V	C4008	403 229 3508	ELECT 100U M 16V
C1161	403 162 4709	ELECT 10U M 16V	C4011	403 229 3508	ELECT 100U M 16V
C117	403 162 4709	ELECT 10U M 16V	C4012	403 069 5601	CERAMIC 0.01U K 50V
C1172	403 314 5905	CERAMIC 0.47U K 16V	C4013	403 229 3508	ELECT 100U M 16V
C1173	403 229 3508	ELECT 100U M 16V	C4014	403 069 5601	CERAMIC 0.01U K 50V
C118	403 192 5905	CERAMIC 0.1U K 25V	C4015	403 011 4904	CERAMIC 120P J 50V
C119	403 192 5905	CERAMIC 0.1U K 25V	C4016	403 069 5601	CERAMIC 0.01U K 50V
C1197	403 070 2606	CERAMIC 0.1U Z 50V	C4017	403 014 9203	CERAMIC 180P J 50V
C121	403 192 5905	CERAMIC 0.1U K 25V	C4018	403 069 5601	CERAMIC 0.01U K 50V
C122	403 192 5905	CERAMIC 0.1U K 25V	C4019	403 069 5601	CERAMIC 0.01U K 50V
C123	403 314 5905	CERAMIC 0.47U K 16V	C4021	403 069 5601	CERAMIC 0.01U K 50V
C124	403 192 5905	CERAMIC 0.1U K 25V	C4022	403 069 5601	CERAMIC 0.01U K 50V
C126	403 073 9107	CERAMIC 4700P K 50V	C4023	403 229 3508	ELECT 100U M 16V
C127	403 162 6208	ELECT 1U M 50V	C4024	403 069 5601	CERAMIC 0.01U K 50V
C128	403 069 5601	CERAMIC 0.01U K 50V	C4026TM	403 012 4002	CERAMIC 15P J 50V
C131	403 175 4109	ELECT 22U M 16V	C4032	403 314 5905	CERAMIC 0.47U K 16V
C132	403 314 5905	CERAMIC 0.47U K 16V	C4042TM	403 041 9405	ELECT 10U M 16V
C133	403 314 5905	CERAMIC 0.47U K 16V		403 189 2405	ELECT 10U M 16V
C134	403 314 5905	CERAMIC 0.47U K 16V	C4043	403 022 8205	CERAMIC 33P J 50V
C136	403 069 5601	CERAMIC 0.01U K 50V	C4044	403 192 5905	CERAMIC 0.1U K 25V
C137	403 022 8205	CERAMIC 33P J 50V	C4045	403 175 3300	ELECT 47U M 16V
C141	403 314 5905	CERAMIC 0.47U K 16V	C4062	403 162 4709	ELECT 10U M 16V
C142	403 229 3508	ELECT 100U M 16V	C4064	403 192 5905	CERAMIC 0.1U K 25V
C143	403 162 4709	ELECT 10U M 16V	C4065	403 175 3300	ELECT 47U M 16V
C144	403 266 8207	NP-ELECT 10U M 16V	C4072	403 012 6808	CERAMIC 15P J 50V
C145	403 162 4709	ELECT 10U M 16V	C4081	403 009 5708	CERAMIC 100P J 50V
C146	403 314 5905	CERAMIC 0.47U K 16V	C4082	403 022 8205	CERAMIC 33P J 50V
C147	403 266 8207	NP-ELECT 10U M 16V	C4083	403 192 5905	CERAMIC 0.1U K 25V
C148	403 314 5905	CERAMIC 0.47U K 16V	C4084	403 009 5708	CERAMIC 100P J 50V
C149	403 314 5905	CERAMIC 0.47U K 16V	C4085	403 192 5905	CERAMIC 0.1U K 25V
C151	403 073 7301	CERAMIC 470P K 50V	C4086	403 175 3300	ELECT 47U M 16V
C152	403 067 7805	MT-COMPO 0.47U J 50V	C4150	403 072 8507	CERAMIC 330P K 50V
C153	403 012 1100	CERAMIC 13P J 50V	C4155	403 073 7301	CERAMIC 470P K 50V
C154	403 012 6808	CERAMIC 15P J 50V	C4156	403 162 4709	ELECT 10U M 16V
C156	403 010 8507	CERAMIC 12P J 50V	C4157	403 069 9500	CERAMIC 0.01U Z 50V
C157	403 314 5905	CERAMIC 0.47U K 16V	C4171	403 215 2508	CERAMIC 0.056U K 50V
C158	403 010 4202	CERAMIC 11P J 50V	C4172	403 162 6208	ELECT 1U M 50V
C160	403 067 9304	CERAMIC 0.01U K 25V	C4173	403 072 1607	CERAMIC 0.022U K 50V
C161	403 314 5905	CERAMIC 0.47U K 16V	C4174	403 075 4803	CERAMIC 820P K 50V
C162	403 162 4709	ELECT 10U M 16V	C4175	403 069 5601	CERAMIC 0.01U K 50V
C163	403 192 5905	CERAMIC 0.1U K 25V	C4176	403 162 6208	ELECT 1U M 50V
C164	403 192 5905	CERAMIC 0.1U K 25V	C4177	403 192 5905	CERAMIC 0.1U K 25V

# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C4178	403 162 4709	ELECT 10U M 16V	R1071	401 037 5202	MT-GLAZE 100 JA 1/10W
C5020	403 280 1604	ELECT 220U M 16V	R1072	401 037 5400	MT-GLAZE 1K JA 1/10W
C5021	403 280 1604	ELECT 220U M 16V	R1075	401 037 5202	MT-GLAZE 100 JA 1/10W
C5022	403 267 0606	NP-ELECT 4.7U M 16V	R1076	401 037 5400	MT-GLAZE 1K JA 1/10W
C5023	403 072 1607	CERAMIC 0.022U K 50V	R108	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C5024	403 314 5905	CERAMIC 0.47U K 16V	R109	401 189 8304	MT-GLAZE 180 JA 1/3W
C5025	403 073 1200	CERAMIC 0.033U K 50V	R1101	401 037 5608	MT-GLAZE 10K JA 1/10W
C5030	403 069 9500	CERAMIC 0.01U Z 50V	R1102	401 037 5608	MT-GLAZE 10K JA 1/10W
C5031	403 175 3300	ELECT 47U M 16V	R1103	401 038 7601	MT-GLAZE 560 JA 1/10W
C5032	403 069 9500	CERAMIC 0.01U Z 50V	R1104	401 037 5608	MT-GLAZE 10K JA 1/10W
C5034	403 073 1200	CERAMIC 0.033U K 50V	R1105	401 037 5608	MT-GLAZE 10K JA 1/10W
C5035	403 314 5905	CERAMIC 0.47U K 16V	R1106	401 038 7601	MT-GLAZE 560 JA 1/10W
C5036	403 072 1607	CERAMIC 0.022U K 50V	R111	401 258 8303	MT-GLAZE 150 JA 1/3W
C5037	403 280 1604	ELECT 220U M 16V	R1111	401 038 0800	MT-GLAZE 22K JA 1/10W
C5038	403 069 9500	CERAMIC 0.01U Z 50V	R1111A	401 037 5202	MT-GLAZE 100 JA 1/10W
C5040	403 267 0606	NP-ELECT 4.7U M 16V	R1111B	401 037 5202	MT-GLAZE 100 JA 1/10W
C5041	403 314 5905	CERAMIC 0.47U K 16V	R1112	401 038 0800	MT-GLAZE 22K JA 1/10W
C5051	403 162 4709	ELECT 10U M 16V	R1114	401 037 5608	MT-GLAZE 10K JA 1/10W
C5052	403 162 4709	ELECT 10U M 16V	R1115	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7030	403 018 0503	CERAMIC 22P J 50V	R1117	401 037 5202	MT-GLAZE 100 JA 1/10W
C7031	403 018 0503	CERAMIC 22P J 50V	R1118	401 037 5202	MT-GLAZE 100 JA 1/10W
C7032	403 162 6208	ELECT 1U M 50V	R1119	401 037 5202	MT-GLAZE 100 JA 1/10W
C7045	403 162 6208	ELECT 1U M 50V	R112	401 037 9200	MT-GLAZE 1.8K JA 1/10W
C7046	403 162 6208	ELECT 1U M 50V	R1121	401 037 5608	MT-GLAZE 10K JA 1/10W
C7051	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R1122	401 037 5608	MT-GLAZE 10K JA 1/10W
C7053	403 192 5905	CERAMIC 0.1U K 25V	R1123	401 037 5400	MT-GLAZE 1K JA 1/10W
C7054	403 162 4709	ELECT 10U M 16V	R1124	401 037 5608	MT-GLAZE 10K JA 1/10W
C7064	403 068 0409	CERAMIC 0.1U Z 25V	R1125	401 037 5608	MT-GLAZE 10K JA 1/10W
C7081	403 068 0409	CERAMIC 0.1U Z 25V	R1126	401 037 5400	MT-GLAZE 1K JA 1/10W
C7082	403 068 0409	CERAMIC 0.1U Z 25V	R1127	401 037 5608	MT-GLAZE 10K JA 1/10W
C7083TM	403 008 5105	CERAMIC 10P D 50V	R1128	401 037 5608	MT-GLAZE 10K JA 1/10W
C7085	403 068 0409	CERAMIC 0.1U Z 25V	R1129	401 037 5400	MT-GLAZE 1K JA 1/10W
C7088	403 162 6208	ELECT 1U M 50V	R113	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C7089	403 162 4709	ELECT 10U M 16V	R1131	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C7089A	403 068 0409	CERAMIC 0.1U Z 25V	R1132	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7090	403 068 0409	CERAMIC 0.1U Z 25V	R1134	401 037 5202	MT-GLAZE 100 JA 1/10W
C7091	403 068 0409	CERAMIC 0.1U Z 25V	R1135	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C7092	403 068 0409	CERAMIC 0.1U Z 25V	R1136	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7094	403 068 0409	CERAMIC 0.1U Z 25V	R1138	401 037 5202	MT-GLAZE 100 JA 1/10W
C7095	403 068 0409	CERAMIC 0.1U Z 25V	R114	401 037 5608	MT-GLAZE 10K JA 1/10W
C7096	403 192 5905	CERAMIC 0.1U K 25V	R1141	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C7100	403 162 6208	ELECT 1U M 50V	R1142	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7120	403 175 4505	ELECT 47U M 6.3V	R1144	401 037 5202	MT-GLAZE 100 JA 1/10W
C7121	403 175 4505	ELECT 47U M 6.3V	R1147	401 037 5400	MT-GLAZE 1K JA 1/10W
C7122	403 175 4505	ELECT 47U M 6.3V	R1149	401 037 5400	MT-GLAZE 1K JA 1/10W
C7125	403 162 4709	ELECT 10U M 16V	R1151	401 180 2202	MT-GLAZE 360 FA 1/10W
C7126	403 068 0409	CERAMIC 0.1U Z 25V	R1151A	401 038 7601	MT-GLAZE 560 JA 1/10W
C7127	403 068 0409	CERAMIC 0.1U Z 25V	R1151B	401 038 7601	MT-GLAZE 560 JA 1/10W
C7141	403 192 5905	CERAMIC 0.1U K 25V	R1152	401 092 2406	MT-GLAZE 2.2K FA 1/10W
C7142	403 069 1702	CERAMIC 1000P K 50V	R1153	401 037 5400	MT-GLAZE 1K JA 1/10W
C7143	403 162 6208	ELECT 1U M 50V	R1155	401 180 5401	MT-GLAZE 390 FA 1/10W
C7156	403 192 5905	CERAMIC 0.1U K 25V	R1156	401 092 2406	MT-GLAZE 2.2K FA 1/10W
C7157	403 073 3501	CERAMIC 390P K 50V	R1156A	401 038 7601	MT-GLAZE 560 JA 1/10W
C7158	403 067 9304	CERAMIC 0.01U K 25V	R1156B	401 038 7601	MT-GLAZE 560 JA 1/10W
C7171	403 266 8207	NP-ELECT 10U M 16V	R1157	401 037 5400	MT-GLAZE 1K JA 1/10W
C7172	403 020 5503	CERAMIC 270P J 50V	R1158	401 037 5608	MT-GLAZE 10K JA 1/10W
C7181	403 012 6808	CERAMIC 15P J 50V	R1159	401 038 3603	MT-GLAZE 3.3K JA 1/10W
C7182	403 028 4102	CERAMIC 56P J 50V	R116	401 037 5400	MT-GLAZE 1K JA 1/10W
C7183	403 018 0503	CERAMIC 22P J 50V	R1160	401 037 5202	MT-GLAZE 100 JA 1/10W
C7185	403 018 0503	CERAMIC 22P J 50V	R1161	401 037 5202	MT-GLAZE 100 JA 1/10W
C7186	403 013 3004	CERAMIC 150P J 50V	R1162	401 037 5608	MT-GLAZE 10K JA 1/10W
C7187	403 024 2102	CERAMIC 39P J 50V	R1163	401 037 5608	MT-GLAZE 10K JA 1/10W
C7188	403 068 0409	CERAMIC 0.1U Z 25V	R1164	401 037 5608	MT-GLAZE 10K JA 1/10W
C7189	403 162 4709	ELECT 10U M 16V	R1168	401 038 0800	MT-GLAZE 22K JA 1/10W
RESISTOR					
R100	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R1169	401 038 0800	MT-GLAZE 22K JA 1/10W
R102	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R117	401 038 6307	MT-GLAZE 470 JA 1/10W
R103	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R1171	401 037 5202	MT-GLAZE 100 JA 1/10W
R107	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R1172	401 037 5202	MT-GLAZE 100 JA 1/10W
			R1173	401 037 5202	MT-GLAZE 100 JA 1/10W
			R1175	401 038 0701	MT-GLAZE 2.2K JA 1/10W

# Electrical Parts List

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1176	401 143 9408	MT-GLAZE 220 FA 1/10W	R168	401 037 5608	MT-GLAZE 10K JA 1/10W
R1177	401 112 7701	MT-GLAZE 560 FA 1/10W	R169	401 037 7404	MT-GLAZE 13K JA 1/10W
R1178	401 037 5400	MT-GLAZE 1K JA 1/10W	R171	401 037 5608	MT-GLAZE 10K JA 1/10W
R1179	401 037 5400	MT-GLAZE 1K JA 1/10W	R172	401 038 6505	MT-GLAZE 47K JA 1/10W
R118	401 039 0304	MT-GLAZE 820 JA 1/10W	R173	401 038 0800	MT-GLAZE 22K JA 1/10W
R1184	401 038 0701	MT-GLAZE 2. 2K JA 1/10W	R174	401 037 5608	MT-GLAZE 10K JA 1/10W
R1185	401 038 9209	MT-GLAZE 6. 8K JA 1/10W	R175	401 037 5608	MT-GLAZE 10K JA 1/10W
R1186	401 037 5400	MT-GLAZE 1K JA 1/10W	R176	401 038 7809	MT-GLAZE 56K JA 1/10W
R1189	401 038 0701	MT-GLAZE 2. 2K JA 1/10W	R177	401 038 5300	MT-GLAZE 39K JA 1/10W
R119	401 037 5608	MT-GLAZE 10K JA 1/10W	R179	401 240 7307	MT-GLAZE 8. 2 JA 1/3W
R1190	401 037 9200	MT-GLAZE 1. 8K JA 1/10W	R181	401 037 5400	MT-GLAZE 1K JA 1/10W
R1191	401 037 5202	MT-GLAZE 100 JA 1/10W	R183	401 240 7307	MT-GLAZE 8. 2 JA 1/3W
R1192	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	R186	401 112 7602	MT-GLAZE 1K FA 1/10W
R1193	401 037 5202	MT-GLAZE 100 JA 1/10W	R187	401 112 7602	MT-GLAZE 1K FA 1/10W
R1194	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	R188	401 038 2101	MT-GLAZE 2. 7K JA 1/10W
R1195	401 037 5202	MT-GLAZE 100 JA 1/10W	R189	401 037 5608	MT-GLAZE 10K JA 1/10W
R1196	401 037 5608	MT-GLAZE 10K JA 1/10W	R191	401 103 7901	MT-GLAZE 820 FA 1/10W
R1197	401 037 5400	MT-GLAZE 1K JA 1/10W	R192	401 112 7602	MT-GLAZE 1K FA 1/10W
R1198	401 037 5608	MT-GLAZE 10K JA 1/10W	R193	401 038 3603	MT-GLAZE 3. 3K JA 1/10W
R1198A	401 037 5202	MT-GLAZE 100 JA 1/10W	R194	401 037 5608	MT-GLAZE 10K JA 1/10W
R1198B	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	R196	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R1199	401 037 5400	MT-GLAZE 1K JA 1/10W	R197	401 037 5608	MT-GLAZE 10K JA 1/10W
R1199A	401 037 5202	MT-GLAZE 100 JA 1/10W	R198	401 037 5608	MT-GLAZE 10K JA 1/10W
R1199B	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	R199	401 038 0800	MT-GLAZE 22K JA 1/10W
R120	401 037 5202	MT-GLAZE 100 JA 1/10W	R199A	401 038 0800	MT-GLAZE 22K JA 1/10W
R121	401 037 5400	MT-GLAZE 1K JA 1/10W	R4000	401 037 7800	MT-GLAZE 150 JA 1/10W
R122	401 038 6307	MT-GLAZE 470 JA 1/10W	R4001	401 037 7800	MT-GLAZE 150 JA 1/10W
R123	401 039 0304	MT-GLAZE 820 JA 1/10W	R4002	401 037 7909	MT-GLAZE 1. 5K JA 1/10W
R124	401 037 5608	MT-GLAZE 10K JA 1/10W	R4011	401 039 0304	MT-GLAZE 820 JA 1/10W
R126	401 037 5400	MT-GLAZE 1K JA 1/10W	R4012	401 037 5608	MT-GLAZE 10K JA 1/10W
R127	401 038 6307	MT-GLAZE 470 JA 1/10W	R4013	401 037 5608	MT-GLAZE 10K JA 1/10W
R128	401 039 0304	MT-GLAZE 820 JA 1/10W	R4014	401 037 5202	MT-GLAZE 100 JA 1/10W
R130	401 037 5202	MT-GLAZE 100 JA 1/10W	R4016	401 039 0403	MT-GLAZE 8. 2K JA 1/10W
R131	401 037 5608	MT-GLAZE 10K JA 1/10W	R4017	401 037 6803	MT-GLAZE 12K JA 1/10W
R132	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	R4018	401 037 5202	MT-GLAZE 100 JA 1/10W
R133	401 037 5400	MT-GLAZE 1K JA 1/10W	R4019	401 112 7602	MT-GLAZE 1K FA 1/10W
R134	401 038 2101	MT-GLAZE 2. 7K JA 1/10W	R4020	401 112 7800	MT-GLAZE 470 FA 1/10W
R136	401 037 5202	MT-GLAZE 100 JA 1/10W	R4021	401 092 1904	MT-GLAZE 2. 7K FA 1/10W
R137	401 038 9209	MT-GLAZE 6. 8K JA 1/10W	R4026TM	401 026 9907	CARBON 4. 7K JA 1/6W
R138	401 038 6307	MT-GLAZE 470 JA 1/10W	R4031	401 037 5202	MT-GLAZE 100 JA 1/10W
R139	401 037 5608	MT-GLAZE 10K JA 1/10W	R4035	401 037 5608	MT-GLAZE 10K JA 1/10W
R140	401 037 5202	MT-GLAZE 100 JA 1/10W	R4036	401 038 3603	MT-GLAZE 3. 3K JA 1/10W
R141	401 038 3801	MT-GLAZE 330K JA 1/10W	R4040TM	401 027 3003	CARBON 56K JA 1/6W
R142	401 037 7800	MT-GLAZE 150 JA 1/10W	R4041	401 037 5202	MT-GLAZE 100 JA 1/10W
R143	401 038 6307	MT-GLAZE 470 JA 1/10W	R4042	401 037 5400	MT-GLAZE 1K JA 1/10W
R144	401 037 5400	MT-GLAZE 1K JA 1/10W	R4045	401 037 5707	MT-GLAZE 100K JA 1/10W
R145	401 037 5103	MT-GLAZE 10 JA 1/10W	R4046	401 038 5300	MT-GLAZE 39K JA 1/10W
R146	401 038 3603	MT-GLAZE 3. 3K JA 1/10W	R4047	401 037 5400	MT-GLAZE 1K JA 1/10W
R147	401 038 0602	MT-GLAZE 220 JA 1/10W	R4048TM	401 025 7805	CARBON 2. 2K JA 1/6W
R148	401 038 0602	MT-GLAZE 220 JA 1/10W	R4049	401 111 4800	MT-GLAZE 3. 9K FA 1/10W
R148A	401 037 5202	MT-GLAZE 100 JA 1/10W	R4051	401 092 1904	MT-GLAZE 2. 7K FA 1/10W
R148B	401 037 5400	MT-GLAZE 1K JA 1/10W	R4052	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R149	401 037 5400	MT-GLAZE 1K JA 1/10W	R4056	401 037 5608	MT-GLAZE 10K JA 1/10W
R151	401 037 8005	MT-GLAZE 15K JA 1/10W	R4057	401 037 5608	MT-GLAZE 10K JA 1/10W
R152	401 038 6307	MT-GLAZE 470 JA 1/10W	R4061	401 037 5400	MT-GLAZE 1K JA 1/10W
R153	401 037 9200	MT-GLAZE 1. 8K JA 1/10W	R4062	401 037 5400	MT-GLAZE 1K JA 1/10W
R154	401 038 7809	MT-GLAZE 56K JA 1/10W	R4063	401 037 5400	MT-GLAZE 1K JA 1/10W
R155	401 038 7809	MT-GLAZE 56K JA 1/10W	R4064	401 111 5005	MT-GLAZE 100K FA 1/10W
R156	401 038 7809	MT-GLAZE 56K JA 1/10W	R4065	401 100 5207	MT-GLAZE 15K FA 1/10W
R157	401 037 5707	MT-GLAZE 100K JA 1/10W	R4066	401 037 5400	MT-GLAZE 1K JA 1/10W
R158	401 037 5707	MT-GLAZE 100K JA 1/10W	R4068	401 148 2701	MT-GLAZE 1. 1K FA 1/10W
R159	401 037 5707	MT-GLAZE 100K JA 1/10W	R4069	401 092 2406	MT-GLAZE 2. 2K FA 1/10W
R160	401 037 6902	MT-GLAZE 120K JA 1/10W	R4071	401 037 5400	MT-GLAZE 1K JA 1/10W
R161	401 037 5707	MT-GLAZE 100K JA 1/10W	R4072TM	401 026 9907	CARBON 4. 7K JA 1/6W
R162	401 037 5707	MT-GLAZE 100K JA 1/10W	R4073	401 038 2101	MT-GLAZE 2. 7K JA 1/10W
R163	401 037 5707	MT-GLAZE 100K JA 1/10W	R4074TM	401 025 4606	CARBON 18K JA 1/6W
R164	401 038 2101	MT-GLAZE 2. 7K JA 1/10W	R4081	401 037 5400	MT-GLAZE 1K JA 1/10W
R165	401 038 0909	MT-GLAZE 220K JA 1/10W	R4082	401 037 5400	MT-GLAZE 1K JA 1/10W
R166	401 037 7909	MT-GLAZE 1. 5K JA 1/10W	R4083	401 037 5400	MT-GLAZE 1K JA 1/10W
R167	401 037 5400	MT-GLAZE 1K JA 1/10W	R4084	401 037 6803	MT-GLAZE 12K JA 1/10W



# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R4085	401 038 5102	MT-GLAZE 3. 9K JA 1/10W	R7177	401 037 5400	MT-GLAZE 1K JA 1/10W
R4086	401 037 5400	MT-GLAZE 1K JA 1/10W	R7181	401 038 6307	MT-GLAZE 470 JA 1/10W
R4087	401 038 7601	MT-GLAZE 560 JA 1/10W	R7183	401 037 5608	MT-GLAZE 10K JA 1/10W
R4088	401 037 6704	MT-GLAZE 1. 2K JA 1/10W	R7183A	401 037 5400	MT-GLAZE 1K JA 1/10W
R4089	401 038 6307	MT-GLAZE 470 JA 1/10W	R7184	401 037 5400	MT-GLAZE 1K JA 1/10W
R4091	401 037 5400	MT-GLAZE 1K JA 1/10W	R7185	401 038 6307	MT-GLAZE 470 JA 1/10W
R4092	401 037 5400	MT-GLAZE 1K JA 1/10W	R7186	401 037 5608	MT-GLAZE 10K JA 1/10W
R4150	401 038 0800	MT-GLAZE 22K JA 1/10W	R7191	401 037 5202	MT-GLAZE 100 JA 1/10W
R4155	401 037 8005	MT-GLAZE 15K JA 1/10W	R7192	401 037 5400	MT-GLAZE 1K JA 1/10W
R4156	401 037 5400	MT-GLAZE 1K JA 1/10W	R7195	401 037 5202	MT-GLAZE 100 JA 1/10W
R4157	401 037 9200	MT-GLAZE 1. 8K JA 1/10W	R7196	401 037 5400	MT-GLAZE 1K JA 1/10W
R4158	401 037 5400	MT-GLAZE 1K JA 1/10W			
R4159	401 037 5202	MT-GLAZE 100 JA 1/10W	COIL		
R4171	401 037 8104	MT-GLAZE 150K JA 1/10W	L1151	645 029 6635	DELAY LINE
R4176	401 037 5400	MT-GLAZE 1K JA 1/10W	L1156	645 029 6635	DELAY LINE
R4177	401 037 5608	MT-GLAZE 10K JA 1/10W	L4002	645 001 4512	INDUCTOR, 10U K
R4179	401 038 0701	MT-GLAZE 2. 2K JA 1/10W	L4003	645 001 4512	INDUCTOR, 10U K
R4181	401 038 7601	MT-GLAZE 560 JA 1/10W	L4040	645 001 4512	INDUCTOR, 10U K
R4182	401 038 5102	MT-GLAZE 3. 9K JA 1/10W	L4042TM	645 007 9986	INDUCTOR, 33U J
R4183	401 038 7502	MT-GLAZE 56 JA 1/10W	L4060	645 001 4512	INDUCTOR, 10U K
R4185	401 037 5400	MT-GLAZE 1K JA 1/10W	L4061	645 025 6066	FILTER, LP 7MHZ
R4186	401 037 5400	MT-GLAZE 1K JA 1/10W	L4072TM	645 007 9986	INDUCTOR, 33U J
R4187	401 037 5202	MT-GLAZE 100 JA 1/10W	L4081	645 004 2430	INDUCTOR, 56U J
R5026	401 037 9200	MT-GLAZE 1. 8K JA 1/10W	L4082	645 004 2430	INDUCTOR, 56U J
R5027	401 038 0602	MT-GLAZE 220 JA 1/10W	L7001	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5028	401 038 0602	MT-GLAZE 220 JA 1/10W	L7002	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5029	401 038 5003	MT-GLAZE 390 JA 1/10W	L7003	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5031	401 037 5707	MT-GLAZE 100K JA 1/10W	L7004	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5032	401 037 7909	MT-GLAZE 1. 5K JA 1/10W	L7005	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5033	401 037 9200	MT-GLAZE 1. 8K JA 1/10W	L7006	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5036	401 038 6406	MT-GLAZE 4. 7K JA 1/10W	L7007	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5037	401 038 6406	MT-GLAZE 4. 7K JA 1/10W	L7008	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5041	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W	L7046	645 001 4512	INDUCTOR, 10U K
R5042	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	L7121	645 001 4512	INDUCTOR, 10U K
R5043	401 037 5202	MT-GLAZE 100 JA 1/10W	L7122	645 001 4512	INDUCTOR, 10U K
R5044	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W	L7125	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5045	401 038 7700	MT-GLAZE 5. 6K JA 1/10W	L7126	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5046	401 037 5202	MT-GLAZE 100 JA 1/10W	L7127	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R5049	401 038 5003	MT-GLAZE 390 JA 1/10W	L7156	645 004 1587	INDUCTOR, 4. 7U J
R5051	401 038 0701	MT-GLAZE 2. 2K JA 1/10W	L7181	645 004 2362	INDUCTOR, 18U J
R5052	401 038 9001	MT-GLAZE 680 JA 1/10W	L7182	645 004 2409	INDUCTOR, 33U J
R5053	401 038 0701	MT-GLAZE 2. 2K JA 1/10W	L7185	645 004 2362	INDUCTOR, 18U J
R5054	401 038 9001	MT-GLAZE 680 JA 1/10W	L7186	645 004 2423	INDUCTOR, 47U J
R7031	401 038 6307	MT-GLAZE 470 JA 1/10W	L7188	645 001 4512	INDUCTOR, 10U K
R7041	401 037 5202	MT-GLAZE 100 JA 1/10W			
R7042	401 037 5202	MT-GLAZE 100 JA 1/10W	DIODE		
R7043	401 037 5202	MT-GLAZE 100 JA 1/10W	D101	407 071 6601	ZENER DIODE DZD5. 1Z-TA
R7044	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3506	ZD 02CZ5. 1Z(TE85R)
R7052	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W	D102	407 004 8009	DIODE DSB015-TB
R7054	401 037 5202	MT-GLAZE 100 JA 1/10W	D161	407 004 8009	DIODE DSB015-TB
R7057	401 037 5707	MT-GLAZE 100K JA 1/10W	D162	407 004 8009	DIODE DSB015-TB
R7058	401 037 5608	MT-GLAZE 10K JA 1/10W	D191	407 004 8009	DIODE DSB015-TB
R7059	401 037 5202	MT-GLAZE 100 JA 1/10W	D5031	407 071 6403	ZENER DIODE DZD5. 1X-TA
R7060	401 037 5202	MT-GLAZE 100 JA 1/10W		407 071 6502	ZENER DIODE DZD5. 1Y-TA
R7077	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W		407 071 6601	ZENER DIODE DZD5. 1Z-TA
R7078	401 037 5400	MT-GLAZE 1K JA 1/10W		407 175 3308	ZD 02CZ5. 1X(TE85R)
R7079	401 037 5400	MT-GLAZE 1K JA 1/10W		407 175 3407	ZD 02CZ5. 1Y(TE85R)
R7141	401 038 0602	MT-GLAZE 220 JA 1/10W		407 175 3506	ZD 02CZ5. 1Z(TE85R)
R7142	401 038 6505	MT-GLAZE 47K JA 1/10W	D5032	407 092 9506	DIODE SB07-03C-TB
R7143	401 038 0909	MT-GLAZE 220K JA 1/10W	D7054	407 004 8009	DIODE DSB015-TB
R7144	401 037 5400	MT-GLAZE 1K JA 1/10W	D7083	407 071 6601	ZENER DIODE DZD5. 1Z-TA
R7145	401 038 0701	MT-GLAZE 2. 2K JA 1/10W		407 175 3506	ZD 02CZ5. 1Z(TE85R)
R7146	401 038 6307	MT-GLAZE 470 JA 1/10W	D7084	407 071 6601	ZENER DIODE DZD5. 1Z-TA
R7147	401 038 6406	MT-GLAZE 4. 7K JA 1/10W		407 175 3506	ZD 02CZ5. 1Z(TE85R)
R7156	401 038 6307	MT-GLAZE 470 JA 1/10W	D7121	407 004 8009	DIODE DSB015-TB
R7158	401 037 5400	MT-GLAZE 1K JA 1/10W			
R7171	401 037 5400	MT-GLAZE 1K JA 1/10W			
R7172	401 038 0800	MT-GLAZE 22K JA 1/10W			
R7173	401 037 8005	MT-GLAZE 15K JA 1/10W			
R7174	401 037 5400	MT-GLAZE 1K JA 1/10W			

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
MISCELLANEOUS			IC2106	409 153 5601	IC MC74F244M
TE101	645 000 0409	TERMINAL	IC2107	410 306 4600	IC M52347FP-600D
TE4001	645 000 0409	TERMINAL	CAPACITOR		
TE4171	645 000 0409	TERMINAL	C2101	403 014 9203	CERAMIC 180P J 50V
TE7001	645 000 0409	TERMINAL	C2102	403 023 4404	CERAMIC 330P J 50V
TP101	645 000 0409	TERMINAL	C2103	403 014 9203	CERAMIC 180P J 50V
TP102	645 000 0409	TERMINAL	C2104	403 023 4404	CERAMIC 330P J 50V
TP103	645 000 0409	TERMINAL	C2105	403 069 9500	CERAMIC 0.01U Z 50V
TP4001	645 000 0409	TERMINAL	C2106	403 069 9500	CERAMIC 0.01U Z 50V
TP4171	645 000 0409	TERMINAL	C2107	403 069 9500	CERAMIC 0.01U Z 50V
TP4172	645 000 0409	TERMINAL	C2109	403 069 9500	CERAMIC 0.01U Z 50V
TP4173	645 000 0409	TERMINAL	C2111	403 069 9500	CERAMIC 0.01U Z 50V
TP7001	645 000 0409	TERMINAL	C2112	403 162 4006	ELECT 22U M 6.3V
TP7002	645 000 0409	TERMINAL	C2113	403 192 5905	CERAMIC 0.1U K 25V
TP7156	645 000 0409	TERMINAL	C2116	403 175 3300	ELECT 47U M 16V
TP7163	645 000 0409	TERMINAL	C2117	403 175 3300	ELECT 47U M 16V
K10C	645 008 3389	PLUG, 15P	C2118	403 175 3300	ELECT 47U M 16V
K10D	645 008 3389	PLUG, 15P	C2121	403 018 0503	CERAMIC 22P J 50V
K10S	645 006 0861	PLUG, 7P	C2122	403 018 0503	CERAMIC 22P J 50V
K10T	645 005 8127	PLUG, 6P	C2123	403 018 0503	CERAMIC 22P J 50V
K10U	645 005 8158	PLUG, 10P	C2124	403 069 9500	CERAMIC 0.01U Z 50V
X101	610 012 0532	OSC, CERAMIC 500.0KHZ	C2126	403 069 9500	CERAMIC 0.01U Z 50V
X102	645 024 8801	OSC, CRYSTAL 4.433619MHZ	C2127	403 192 5905	CERAMIC 0.1U K 25V
	645 025 1122	OSC, CRYSTAL 4.433619MHZ	C2131	403 192 5905	CERAMIC 0.1U K 25V
X103	645 028 1365	OSC, CRYSTAL 3.582056MHZ	C2132	403 162 4709	ELECT 10U M 16V
X104	645 028 1372	OSC, CRYSTAL 3.575611MHZ	C2134	403 067 8208	MT-COMPO 0.068U J 50V
X105	645 024 8788	OSC, CRYSTAL 3.579545MHZ	C2135	403 162 4709	ELECT 10U M 16V
	645 025 1108	OSC, CRYSTAL 3.579545MHZ	C2137	403 009 5708	CERAMIC 100P J 50V
X4171	645 006 3459	OSC, CERAMIC 500.0KHZ	C2138	403 069 9500	CERAMIC 0.01U Z 50V
X7031	645 028 5622	OSC, CRYSTAL 20.000MHZ	C2139	403 175 4505	ELECT 47U M 6.3V
	645 028 5646	OSC, CRYSTAL 20.000MHZ	C2141	403 018 7403	CERAMIC 220P J 50V
	610 272 1317	ASSY, PWB, CG-M6MA	C2146	403 162 4006	ELECT 22U M 6.3V
	1AA0B10C1610B		C2147	403 069 9500	CERAMIC 0.01U Z 50V
TRANSISTOR			C2148	403 021 0200	CERAMIC 3P C 50V
Q2101	405 014 4509	TR 2SC2412K T146 R	C2149	403 021 0200	CERAMIC 3P C 50V
	405 014 4608	TR 2SC2412K T146 S	C2151	403 316 5408	CERAMIC 1U K 10V
	405 015 8704	TR 2SC2812-L6-TB	C2152	403 021 0200	CERAMIC 3P C 50V
	405 015 8902	TR 2SC2812-L7-TB	C2161	403 069 9500	CERAMIC 0.01U Z 50V
Q2102	405 014 4509	TR 2SC2412K T146 R	C2163	403 316 5408	CERAMIC 1U K 10V
	405 014 4608	TR 2SC2412K T146 S	C2164	403 069 9500	CERAMIC 0.01U Z 50V
	405 015 8704	TR 2SC2812-L6-TB	C2166	403 316 5408	CERAMIC 1U K 10V
	405 015 8902	TR 2SC2812-L7-TB	C2167	403 069 9500	CERAMIC 0.01U Z 50V
Q2103	405 014 4509	TR 2SC2412K T146 R	C2173	403 162 6208	ELECT 1U M 50V
	405 014 4608	TR 2SC2412K T146 S	C2176	403 069 9500	CERAMIC 0.01U Z 50V
	405 015 8704	TR 2SC2812-L6-TB	C2178	403 069 9500	CERAMIC 0.01U Z 50V
	405 015 8902	TR 2SC2812-L7-TB	C2184	403 267 0606	NP-ELECT 4.7U M 16V
Q2104	405 014 4509	TR 2SC2412K T146 R	C2185	403 267 0606	NP-ELECT 4.7U M 16V
	405 014 4608	TR 2SC2412K T146 S	C2186	403 267 0606	NP-ELECT 4.7U M 16V
	405 015 8704	TR 2SC2812-L6-TB	C2187	403 267 0606	NP-ELECT 4.7U M 16V
	405 015 8902	TR 2SC2812-L7-TB	RESISTOR		
Q2106	405 014 4509	TR 2SC2412K T146 R	R2101	401 147 7707	MT-GLAZE 150 FA 1/10W
	405 014 4608	TR 2SC2412K T146 S	R2102	401 147 7707	MT-GLAZE 150 FA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R2103	401 147 7707	MT-GLAZE 150 FA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R2104	401 147 7707	MT-GLAZE 150 FA 1/10W
Q2107	405 014 4509	TR 2SC2412K T146 R	R2106	401 147 7707	MT-GLAZE 150 FA 1/10W
	405 014 4608	TR 2SC2412K T146 S	R2107	401 147 7707	MT-GLAZE 150 FA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R2108	401 037 5202	MT-GLAZE 100 JA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R2109	401 037 5202	MT-GLAZE 100 JA 1/10W
Q2109	405 014 4509	TR 2SC2412K T146 R	R2111	401 037 5202	MT-GLAZE 100 JA 1/10W
	405 014 4608	TR 2SC2412K T146 S	R2112	401 037 5202	MT-GLAZE 100 JA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R2113	401 037 5202	MT-GLAZE 100 JA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R2114	401 037 5608	MT-GLAZE 10K JA 1/10W
INTEGRATED CIRCUIT			R2115	401 037 5608	MT-GLAZE 10K JA 1/10W
IC2101	409 407 7900	IC EL4332CS	R2116	401 037 5202	MT-GLAZE 100 JA 1/10W
IC2102	409 407 7900	IC EL4332CS	R2117	401 037 5202	MT-GLAZE 100 JA 1/10W
IC2103	409 407 7900	IC EL4332CS	R2118	401 147 7707	MT-GLAZE 150 FA 1/10W
IC2104	409 403 7300	IC EL2386CS-T2	R2119	401 147 7707	MT-GLAZE 150 FA 1/10W
			R2120	401 037 5608	MT-GLAZE 10K JA 1/10W

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R2121	401 037 5202	MT-GLAZE 100 JA 1/10W	L2103	645 024 0669	FILTER, EMI 20PF
R2122	401 147 7707	MT-GLAZE 150 FA 1/10W	L2104	645 025 0637	FILTER, EMI 190PF
R2123	401 147 7707	MT-GLAZE 150 FA 1/10W	L2106	645 025 0637	FILTER, EMI 190PF
R2124	401 037 5202	MT-GLAZE 100 JA 1/10W	L2107	645 024 0669	FILTER, EMI 20PF
R2125	401 037 5202	MT-GLAZE 100 JA 1/10W	L2108	645 024 0669	FILTER, EMI 20PF
R2126	401 147 7707	MT-GLAZE 150 FA 1/10W	L2109	645 024 0669	FILTER, EMI 20PF
R2127	401 147 7707	MT-GLAZE 150 FA 1/10W	L2111	645 025 0637	FILTER, EMI 190PF
R2128	401 037 5202	MT-GLAZE 100 JA 1/10W	L2112	645 025 0637	FILTER, EMI 190PF
R2129	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L2113	645 014 2659	FILTER, EMI 10MHZ
R2130	401 037 5202	MT-GLAZE 100 JA 1/10W	L2114	645 014 2659	FILTER, EMI 10MHZ
R2131	401 147 8407	MT-GLAZE 51 FA 1/10W	L2116	645 002 3910	FILTER, EMI 100MHZ
R2132	401 092 2109	MT-GLAZE 100 FA 1/10W	L2117	645 002 3910	FILTER, EMI 100MHZ
R2133	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L2118	645 002 3910	FILTER, EMI 100MHZ
R2134	401 147 8407	MT-GLAZE 51 FA 1/10W	L2122	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2135	401 037 5608	MT-GLAZE 10K JA 1/10W	L2123	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2136	401 092 2109	MT-GLAZE 100 FA 1/10W			
R2137	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	DIODE		
R2139	401 037 5400	MT-GLAZE 1K JA 1/10W	D2101	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2141	401 038 0701	MT-GLAZE 2.2K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2142	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2143	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2144	401 037 5400	MT-GLAZE 1K JA 1/10W	D2102	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2146	401 038 0701	MT-GLAZE 2.2K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2148	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2149	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2151	401 037 5608	MT-GLAZE 10K JA 1/10W	D2103	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2152	401 037 5400	MT-GLAZE 1K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2153	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2156	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2157	401 092 2109	MT-GLAZE 100 FA 1/10W	D2104	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2158	401 147 8407	MT-GLAZE 51 FA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2159	401 037 5400	MT-GLAZE 1K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2161	401 038 0701	MT-GLAZE 2.2K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2162	401 038 0800	MT-GLAZE 22K JA 1/10W	D2105	407 004 8009	DIODE DSB015-TB
R2163	401 038 0701	MT-GLAZE 2.2K JA 1/10W	D2106	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2164	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2169	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2171	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2172	401 038 7809	MT-GLAZE 56K JA 1/10W	D2107	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2173	401 038 6000	MT-GLAZE 43K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2174	401 037 5400	MT-GLAZE 1K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2175	401 037 5400	MT-GLAZE 1K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2176	401 037 9309	MT-GLAZE 18K JA 1/10W	D2108	407 071 0005	ZENER DIODE DZD12X-TA
R2177	401 038 3009	MT-GLAZE 3K JA 1/10W		407 071 0104	ZENER DIODE DZD12Y-TA
R2178	401 037 9309	MT-GLAZE 18K JA 1/10W		407 071 0203	ZENER DIODE DZD12Z-TA
R2179	401 038 3009	MT-GLAZE 3K JA 1/10W		407 199 6200	ZD 02CZ12X(TE85R)
R2180	401 038 5904	MT-GLAZE 4.3K JA 1/10W		407 175 2806	ZD 02CZ12Y(TE85R)
R2181	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 175 2905	ZD 02CZ12Z(TE85R)
R2182	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	D2109	407 071 0005	ZENER DIODE DZD12X-TA
R2183	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 071 0104	ZENER DIODE DZD12Y-TA
R2184	401 037 7800	MT-GLAZE 150 JA 1/10W		407 071 0203	ZENER DIODE DZD12Z-TA
R2185TM	401 025 1308	CARBON 150 JA 1/6W		407 199 6200	ZD 02CZ12X(TE85R)
R2186	401 037 5103	MT-GLAZE 10 JA 1/10W		407 175 2806	ZD 02CZ12Y(TE85R)
R2187	401 037 5103	MT-GLAZE 10 JA 1/10W		407 175 2905	ZD 02CZ12Z(TE85R)
R2188	401 037 5202	MT-GLAZE 100 JA 1/10W	D2111	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2189	401 037 5103	MT-GLAZE 10 JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2190	401 037 5400	MT-GLAZE 1K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2191	401 037 7909	MT-GLAZE 1.5K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2192	401 038 9506	MT-GLAZE 75 JA 1/10W	D2112	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2193	401 037 7909	MT-GLAZE 1.5K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2194	401 038 9506	MT-GLAZE 75 JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2195	401 038 0701	MT-GLAZE 2.2K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
R2196	401 038 9506	MT-GLAZE 75 JA 1/10W	D2113	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R2197	401 037 7909	MT-GLAZE 1.5K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R2198	401 038 0701	MT-GLAZE 2.2K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y(TE85R)
R2199	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3902	ZD 02CZ6. 2Z(TE85R)
COIL			D2114	407 071 7301	ZENER DIODE DZD6. 2Y-TA
L2101	645 024 0669	FILTER, EMI 20PF		407 071 7400	ZENER DIODE DZD6. 2Z-TA
L2102	645 024 0669	FILTER, EMI 20PF		407 175 3803	ZD 02CZ6. 2Y(TE85R)
				407 175 3902	ZD 02CZ6. 2Z(TE85R)



# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D2115	407 004 8009	DIODE DSB015-TB		405 015 8704	TR 2SC2812-L6-TB
D2116	407 071 7301	ZENER DIODE DZD6. 2Y-TA		405 015 8902	TR 2SC2812-L7-TB
	407 071 7400	ZENER DIODE DZD6. 2Z-TA	05111	405 014 4509	TR 2SC2412K T146 R
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		405 014 4608	TR 2SC2412K T146 S
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		405 015 8704	TR 2SC2812-L6-TB
D2117	407 071 7301	ZENER DIODE DZD6. 2Y-TA		405 015 8902	TR 2SC2812-L7-TB
	407 071 7400	ZENER DIODE DZD6. 2Z-TA	05141	405 014 4509	TR 2SC2412K T146 R
	407 175 3803	ZD 02CZ6. 2Y (TE85R)	05142	405 014 4509	TR 2SC2412K T146 R
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	05151	405 014 4509	TR 2SC2412K T146 R
D2118	407 071 0005	ZENER DIODE DZD12X-TA	05152	405 014 4509	TR 2SC2412K T146 R
	407 071 0104	ZENER DIODE DZD12Y-TA	05156	405 014 4509	TR 2SC2412K T146 R
	407 071 0203	ZENER DIODE DZD12Z-TA	05157	405 014 4509	TR 2SC2412K T146 R
	407 199 6200	ZD 02CZ12X (TE85R)	05158	405 014 4509	TR 2SC2412K T146 R
	407 175 2806	ZD 02CZ12Y (TE85R)			
	407 175 2905	ZD 02CZ12Z (TE85R)			
D2119	407 071 0005	ZENER DIODE DZD12X-TA	INTEGRATED CIRCUIT		
	407 071 0104	ZENER DIODE DZD12Y-TA	IC2801	410 296 5700	IC TWM7000-151020
	407 071 0203	ZENER DIODE DZD12Z-TA	IC2802	410 275 5707	IC TWM7000-162020
	407 199 6200	ZD 02CZ12X (TE85R)		410 275 5806	IC TWM7000-162020
	407 175 2806	ZD 02CZ12Y (TE85R)	IC2803	409 380 6303	IC HIN232CB
	407 175 2905	ZD 02CZ12Z (TE85R)	IC2851	410 296 5700	IC TWM7000-151020
D2121	407 071 7301	ZENER DIODE DZD6. 2Y-TA	IC2852	410 275 5707	IC TWM7000-162020
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		410 275 5806	IC TWM7000-162020
	407 175 3803	ZD 02CZ6. 2Y (TE85R)	IC2871	410 296 2402	IC TMP47C101M-JV45
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	IC2872	409 344 1900	IC MN1382-Q-TX
D2122	407 071 7301	ZENER DIODE DZD6. 2Y-TA	IC2891	409 380 6303	IC HIN232CB
	407 071 7400	ZENER DIODE DZD6. 2Z-TA	IC5101	409 211 7301	IC MC14053BFL
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		409 051 2900	IC TC4053BF-TP1
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	IC5121	409 421 8808	IC M62420FP
D2123	407 071 7301	ZENER DIODE DZD6. 2Y-TA	IC6081	408 016 8803	PC PC113 (VDE0884)
	407 071 7400	ZENER DIODE DZD6. 2Z-TA			
	407 175 3803	ZD 02CZ6. 2Y (TE85R)	CAPACITOR		
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	C2801	403 316 5408	CERAMIC 1U K 10V
D2124	407 071 0005	ZENER DIODE DZD12X-TA	C2803	403 316 5408	CERAMIC 1U K 10V
	407 071 0104	ZENER DIODE DZD12Y-TA	C2804	403 316 5408	CERAMIC 1U K 10V
	407 071 0203	ZENER DIODE DZD12Z-TA	C2808	403 162 6208	ELECT 1U M 50V
	407 199 6200	ZD 02CZ12X (TE85R)	C2811	403 162 6208	ELECT 1U M 50V
	407 175 2806	ZD 02CZ12Y (TE85R)	C2812	403 162 6208	ELECT 1U M 50V
	407 175 2905	ZD 02CZ12Z (TE85R)	C2813	403 162 6208	ELECT 1U M 50V
D2125	407 004 8009	DIODE DSB015-TB	C2814	403 162 6208	ELECT 1U M 50V
D2126	407 071 0005	ZENER DIODE DZD12X-TA	C2816	403 316 5408	CERAMIC 1U K 10V
	407 071 0104	ZENER DIODE DZD12Y-TA	C2820	403 316 5408	CERAMIC 1U K 10V
	407 071 0203	ZENER DIODE DZD12Z-TA	C2851	403 175 4505	ELECT 47U M 6.3V
	407 199 6200	ZD 02CZ12X (TE85R)	C2852	403 316 5408	CERAMIC 1U K 10V
	407 175 2806	ZD 02CZ12Y (TE85R)	C2853	403 316 5408	CERAMIC 1U K 10V
	407 175 2905	ZD 02CZ12Z (TE85R)	C2854	403 316 5408	CERAMIC 1U K 10V
D2127	407 004 8009	DIODE DSB015-TB	C2858	403 162 6208	ELECT 1U M 50V
D2128	407 004 8009	DIODE DSB015-TB	C2860	403 316 5408	CERAMIC 1U K 10V
D2129	407 004 8009	DIODE DSB015-TB	C2872	403 316 5408	CERAMIC 1U K 10V
D2130	407 004 8009	DIODE DSB015-TB	C2873	403 316 5408	CERAMIC 1U K 10V
D2131	407 004 8009	DIODE DSB015-TB	C2891	403 162 6208	ELECT 1U M 50V
D2176	407 004 8009	DIODE DSB015-TB	C2892	403 162 6208	ELECT 1U M 50V
D2178	407 004 8009	DIODE DSB015-TB	C2893	403 162 6208	ELECT 1U M 50V
			C2894	403 162 6208	ELECT 1U M 50V
MISCELLANEOUS			C5101	403 205 7803	TA-SOLID 2.2U M 16V
TH2190TM	408 039 8002	THERMISTOR NTH5G2M31B102J	C5102	403 205 7803	TA-SOLID 2.2U M 16V
K21A	645 028 0955	SOCKET, 40P	C5103	403 205 7803	TA-SOLID 2.2U M 16V
K21B	645 028 0955	SOCKET, 40P	C5104	403 205 7803	TA-SOLID 2.2U M 16V
K21C	645 028 0955	SOCKET, 40P	C5106	403 205 7803	TA-SOLID 2.2U M 16V
K21D	645 006 0946	PLUG, 7P	C5112	403 280 1604	ELECT 220U M 16V
K21E	645 008 3341	PLUG, 10P	C5113	403 314 5905	CERAMIC 0.47U K 16V
K21F	645 008 3341	PLUG, 10P	C5114	403 314 5905	CERAMIC 0.47U K 16V
K21G-1	610 012 5926	TERMINAL	C5120	403 280 1604	ELECT 220U M 16V
			C5121	403 280 1604	ELECT 220U M 16V
			C5122	403 267 0606	NP-ELECT 4.7U M 16V
			C5123	403 072 1607	CERAMIC 0.022U K 50V
			C5124	403 314 5905	CERAMIC 0.47U K 16V
			C5125	403 073 1200	CERAMIC 0.033U K 50V
TRANSISTOR			C5130	403 069 9500	CERAMIC 0.01U Z 50V
05110	405 014 4509	TR 2SC2412K T146 R	C5131	403 175 3300	ELECT 47U M 16V
	405 014 4608	TR 2SC2412K T146 S	C5132	403 069 9500	CERAMIC 0.01U Z 50V

# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C5134	403 073 1200	CERAMIC 0.033U K 50V	R5126	401 037 9200	MT-GLAZE 1.8K JA 1/10W
C5135	403 314 5905	CERAMIC 0.47U K 16V	R5127	401 038 0602	MT-GLAZE 220 JA 1/10W
C5136	403 072 1607	CERAMIC 0.022U K 50V	R5128	401 038 0602	MT-GLAZE 220 JA 1/10W
C5137	403 280 1604	ELECT 220U M 16V	R5129	401 038 5003	MT-GLAZE 390 JA 1/10W
C5138	403 069 9500	CERAMIC 0.01U Z 50V	R5131	401 037 5707	MT-GLAZE 100K JA 1/10W
C5139	403 280 1604	ELECT 220U M 16V	R5132	401 037 7909	MT-GLAZE 1.5K JA 1/10W
C5140	403 267 0606	NP-ELECT 4.7U M 16V	R5133	401 037 9200	MT-GLAZE 1.8K JA 1/10W
C5141	403 314 5905	CERAMIC 0.47U K 16V	R5136	401 038 6406	MT-GLAZE 4.7K JA 1/10W
C5151	403 162 4709	ELECT 10U M 16V	R5137	401 038 6406	MT-GLAZE 4.7K JA 1/10W
C5152	403 162 4709	ELECT 10U M 16V	R5141	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RESISTOR			R5142	401 038 7700	MT-GLAZE 5.6K JA 1/10W
RB2881	645 025 5380	R-NETWORK 10KX4 1/16W	R5143	401 037 5202	MT-GLAZE 100 JA 1/10W
	645 026 8014	R-NETWORK 10KX4 1/16W	R5144	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2800	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5145	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R2801	401 037 5608	MT-GLAZE 10K JA 1/10W	R5146	401 037 5202	MT-GLAZE 100 JA 1/10W
R2802	401 037 5608	MT-GLAZE 10K JA 1/10W	R5149	401 038 5003	MT-GLAZE 390 JA 1/10W
R2803	401 037 5608	MT-GLAZE 10K JA 1/10W	R5151	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R2804	401 037 5608	MT-GLAZE 10K JA 1/10W	R5152	401 038 9001	MT-GLAZE 680 JA 1/10W
R2805	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5153	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R2806	401 037 5608	MT-GLAZE 10K JA 1/10W	R5154	401 038 9001	MT-GLAZE 680 JA 1/10W
R2807	401 037 5608	MT-GLAZE 10K JA 1/10W	R5156	401 037 5608	MT-GLAZE 10K JA 1/10W
R2808	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5157	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R2809	401 037 5202	MT-GLAZE 100 JA 1/10W	R5158	401 038 6307	MT-GLAZE 470 JA 1/10W
R2810	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5161	401 038 6604	MT-GLAZE 470K JA 1/10W
R2811	401 037 5608	MT-GLAZE 10K JA 1/10W	R5162	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2812	401 037 5608	MT-GLAZE 10K JA 1/10W	R5163	401 038 6604	MT-GLAZE 470K JA 1/10W
R2814	401 037 5608	MT-GLAZE 10K JA 1/10W	R5164	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2815	401 037 5202	MT-GLAZE 100 JA 1/10W	R5171	401 038 6604	MT-GLAZE 470K JA 1/10W
R2816	401 037 5608	MT-GLAZE 10K JA 1/10W	R5172	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2818	401 037 5608	MT-GLAZE 10K JA 1/10W	R5173	401 038 6604	MT-GLAZE 470K JA 1/10W
R2819	401 038 3702	MT-GLAZE 33K JA 1/10W	R5174	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2850	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5181	401 037 5707	MT-GLAZE 100K JA 1/10W
R2851	401 037 5608	MT-GLAZE 10K JA 1/10W	R5182	401 037 5202	MT-GLAZE 100 JA 1/10W
R2852	401 037 5608	MT-GLAZE 10K JA 1/10W	R5183	401 037 5707	MT-GLAZE 100K JA 1/10W
R2853	401 037 5608	MT-GLAZE 10K JA 1/10W	R5184	401 037 5202	MT-GLAZE 100 JA 1/10W
R2854	401 037 5608	MT-GLAZE 10K JA 1/10W	R6041	401 037 5202	MT-GLAZE 100 JA 1/10W
R2855	401 037 5608	MT-GLAZE 10K JA 1/10W	R6051	401 037 5202	MT-GLAZE 100 JA 1/10W
R2856	401 037 5608	MT-GLAZE 10K JA 1/10W	R6061	401 037 5202	MT-GLAZE 100 JA 1/10W
R2857	401 037 5202	MT-GLAZE 100 JA 1/10W	R6081	401 037 5202	MT-GLAZE 100 JA 1/10W
R2859	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R6082	401 037 5608	MT-GLAZE 10K JA 1/10W
R2861	401 037 5608	MT-GLAZE 10K JA 1/10W	R6083	401 038 3504	MT-GLAZE 330 JA 1/10W
R2862	401 037 5608	MT-GLAZE 10K JA 1/10W	COIL		
R2863	401 037 5202	MT-GLAZE 100 JA 1/10W	L5161	645 014 2659	FILTER, EMI 10MHZ
R2864	401 037 5608	MT-GLAZE 10K JA 1/10W	L5162	645 014 2659	FILTER, EMI 10MHZ
R2866	401 037 5608	MT-GLAZE 10K JA 1/10W	L5173	645 014 2659	FILTER, EMI 10MHZ
R2868	401 037 5608	MT-GLAZE 10K JA 1/10W	L5174	645 014 2659	FILTER, EMI 10MHZ
R2869	401 038 3702	MT-GLAZE 33K JA 1/10W	L5181	645 014 2659	FILTER, EMI 10MHZ
R2870	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L5182	645 014 2659	FILTER, EMI 10MHZ
R2871	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L6001	645 014 2659	FILTER, EMI 10MHZ
R2872	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L6002	645 014 2659	FILTER, EMI 10MHZ
R2873	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L6003	645 014 2659	FILTER, EMI 10MHZ
R2882	401 037 5608	MT-GLAZE 10K JA 1/10W	L6004	645 014 2659	FILTER, EMI 10MHZ
R2883	401 037 5608	MT-GLAZE 10K JA 1/10W	L6005	645 014 2659	FILTER, EMI 10MHZ
R2884	401 037 5608	MT-GLAZE 10K JA 1/10W	L6006	645 014 2659	FILTER, EMI 10MHZ
R2895	401 037 5202	MT-GLAZE 100 JA 1/10W	L6007	645 014 2659	FILTER, EMI 10MHZ
R5101	401 037 5707	MT-GLAZE 100K JA 1/10W	L6008	645 014 2659	FILTER, EMI 10MHZ
R5102	401 037 5707	MT-GLAZE 100K JA 1/10W	L6009	645 014 2659	FILTER, EMI 10MHZ
R5103	401 037 5707	MT-GLAZE 100K JA 1/10W	L6011	645 014 2659	FILTER, EMI 10MHZ
R5104	401 037 5707	MT-GLAZE 100K JA 1/10W	L6021	645 014 2659	FILTER, EMI 10MHZ
R5106	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L6022	645 014 2659	FILTER, EMI 10MHZ
R5107	401 038 3603	MT-GLAZE 3.3K JA 1/10W	L6023	645 014 2659	FILTER, EMI 10MHZ
R5110	401 038 0800	MT-GLAZE 22K JA 1/10W	L6024	645 014 2659	FILTER, EMI 10MHZ
R5111	401 037 5608	MT-GLAZE 10K JA 1/10W	L6025	645 014 2659	FILTER, EMI 10MHZ
R5112	401 037 5608	MT-GLAZE 10K JA 1/10W	L6026	645 014 2659	FILTER, EMI 10MHZ
R5113	401 037 5202	MT-GLAZE 100 JA 1/10W	L6027	645 014 2659	FILTER, EMI 10MHZ
R5114	401 037 5202	MT-GLAZE 100 JA 1/10W	L6028	645 014 2659	FILTER, EMI 10MHZ
R5115	401 037 5608	MT-GLAZE 10K JA 1/10W	L6029	645 014 2659	FILTER, EMI 10MHZ
R5116	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L6031	645 014 2659	FILTER, EMI 10MHZ
R5117	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L6041	645 014 2659	FILTER, EMI 10MHZ

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L6051	645 014 2659	FILTER, EMI 10MHZ		407 071 7400	ZENER DIODE DZD6. 2Z-TA
L6052	645 014 2659	FILTER, EMI 10MHZ		407 175 3803	ZD 02CZ6. 2Y (TE85R)
L6053	645 014 2659	FILTER, EMI 10MHZ		407 175 3902	ZD 02CZ6. 2Z (TE85R)
L6061	645 014 2659	FILTER, EMI 10MHZ	D5181	407 071 0005	ZENER DIODE DZD12X-TA
L6062	645 014 2659	FILTER, EMI 10MHZ		407 071 0104	ZENER DIODE DZD12Y-TA
L6063	645 014 2659	FILTER, EMI 10MHZ		407 071 0203	ZENER DIODE DZD12Z-TA
L6081	645 014 2659	FILTER, EMI 10MHZ		407 199 6200	ZD 02CZ12X (TE85R)
L6082	645 014 2659	FILTER, EMI 10MHZ		407 175 2806	ZD 02CZ12Y (TE85R)
DIODE				407 175 2905	ZD 02CZ12Z (TE85R)
D2801	407 071 6403	ZENER DIODE DZD5. 1X-TA	D5182	407 071 0005	ZENER DIODE DZD12X-TA
	407 071 6502	ZENER DIODE DZD5. 1Y-TA		407 071 0104	ZENER DIODE DZD12Y-TA
	407 175 3308	ZD 02CZ5. 1X (TE85R)		407 071 0203	ZENER DIODE DZD12Z-TA
	407 175 3407	ZD 02CZ5. 1Y (TE85R)		407 199 6200	ZD 02CZ12X (TE85R)
D2851	407 071 6403	ZENER DIODE DZD5. 1X-TA		407 175 2806	ZD 02CZ12Y (TE85R)
	407 071 6502	ZENER DIODE DZD5. 1Y-TA	D5183	407 175 2905	ZD 02CZ12Z (TE85R)
	407 175 3308	ZD 02CZ5. 1X (TE85R)		407 071 0005	ZENER DIODE DZD12X-TA
	407 175 3407	ZD 02CZ5. 1Y (TE85R)		407 071 0104	ZENER DIODE DZD12Y-TA
D5101	407 071 0807	ZENER DIODE DZD15X-TA		407 071 0203	ZENER DIODE DZD12Z-TA
	407 071 0906	ZENER DIODE DZD15Y-TA		407 199 6200	ZD 02CZ12X (TE85R)
	407 175 3001	ZD 02CZ15X (TE85R)		407 175 2806	ZD 02CZ12Y (TE85R)
	407 189 6005	ZD 02CZ15Y (TE85R)	D5184	407 175 2905	ZD 02CZ12Z (TE85R)
D5102	407 071 0807	ZENER DIODE DZD15X-TA		407 071 0005	ZENER DIODE DZD12X-TA
	407 071 0906	ZENER DIODE DZD15Y-TA		407 071 0104	ZENER DIODE DZD12Y-TA
	407 175 3001	ZD 02CZ15X (TE85R)		407 071 0203	ZENER DIODE DZD12Z-TA
	407 189 6005	ZD 02CZ15Y (TE85R)		407 199 6200	ZD 02CZ12X (TE85R)
D5103	407 071 0807	ZENER DIODE DZD15X-TA		407 175 2806	ZD 02CZ12Y (TE85R)
	407 071 0906	ZENER DIODE DZD15Y-TA		407 175 2905	ZD 02CZ12Z (TE85R)
	407 175 3001	ZD 02CZ15X (TE85R)	D6000	407 071 3303	ZENER DIODE DZD20Y-TA
	407 189 6005	ZD 02CZ15Y (TE85R)		407 071 3402	ZENER DIODE DZD20Z-TA
D5104	407 071 0807	ZENER DIODE DZD15X-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 071 0906	ZENER DIODE DZD15Y-TA		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3001	ZD 02CZ15X (TE85R)	D6001	407 071 3303	ZENER DIODE DZD20Y-TA
	407 189 6005	ZD 02CZ15Y (TE85R)		407 071 3402	ZENER DIODE DZD20Z-TA
D5131	407 071 6403	ZENER DIODE DZD5. 1X-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 071 6502	ZENER DIODE DZD5. 1Y-TA		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3308	ZD 02CZ5. 1X (TE85R)	D6002	407 071 3303	ZENER DIODE DZD20Y-TA
	407 175 3407	ZD 02CZ5. 1Y (TE85R)		407 071 3402	ZENER DIODE DZD20Z-TA
D5132	407 092 9506	DIODE SB07-03C-TB		407 190 2904	ZD 02CZ20Y (TE85R)
D5156	407 004 8009	DIODE DSB015-TB		407 198 8700	ZD 02CZ20Z (TE85R)
D5157	407 004 8009	DIODE DSB015-TB	D6003	407 071 3303	ZENER DIODE DZD20Y-TA
D5161	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6004	407 071 3303	ZENER DIODE DZD20Y-TA
D5162	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6005	407 071 3303	ZENER DIODE DZD20Y-TA
D5163	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6006	407 071 3303	ZENER DIODE DZD20Y-TA
D5164	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6007	407 071 3303	ZENER DIODE DZD20Y-TA
D5171	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6008	407 071 3303	ZENER DIODE DZD20Y-TA
D5172	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6009	407 071 3303	ZENER DIODE DZD20Y-TA
D5173	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 190 2904	ZD 02CZ20Y (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 198 8700	ZD 02CZ20Z (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D6011	407 071 3303	ZENER DIODE DZD20Y-TA
D5174	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 3402	ZENER DIODE DZD20Z-TA
				407 190 2904	ZD 02CZ20Y (TE85R)

## 【 Electrical Parts List 】

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# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
K28G-1	610 012 5926	TERMINAL	C3023	403 175 3300	ELECT 47U M 16V
K28P	645 008 3365	PLUG, 12P	C3025	403 175 3300	ELECT 47U M 16V
K28Q	645 008 3365	PLUG, 12P	C3031	403 266 8207	NP-ELECT 10U M 16V
X2801	645 021 1218	OSC, CERAMIC 8. 00MHZ	C3041	403 280 1604	ELECT 220U M 16V
X2802	645 021 1218	OSC, CERAMIC 8. 00MHZ	C3046	403 266 8207	NP-ELECT 10U M 16V
X2851	645 021 1218	OSC, CERAMIC 8. 00MHZ	C3048	403 162 4709	ELECT 10U M 16V
X2852	645 021 1218	OSC, CERAMIC 8. 00MHZ	C3049	403 192 5905	CERAMIC 0. 1U K 25V
X2871	645 024 8566	OSC, CERAMIC 6. 00MHZ	C3051	403 280 1604	ELECT 220U M 16V
	610 272 1331	ASSY, PWB, AVJACK-MGMA	C3056	403 266 8207	NP-ELECT 10U M 16V
	1AA0B10C1610D		C3061	403 280 1604	ELECT 220U M 16V
TRANSISTOR			C3064TM	403 008 7406	CERAMIC 10P D 50V
Q3011	405 014 4509	TR 2SC2412K T146 R	C3066	403 266 8207	NP-ELECT 10U M 16V
	405 014 4608	TR 2SC2412K T146 S	C3071	403 280 1604	ELECT 220U M 16V
	405 015 8704	TR 2SC2812-L6-TB	C3073	403 314 5905	CERAMIC 0. 47U K 16V
	405 015 8902	TR 2SC2812-L7-TB	C3076	403 266 8207	NP-ELECT 10U M 16V
Q3012	405 014 4509	TR 2SC2412K T146 R	C3086	403 266 8207	NP-ELECT 10U M 16V
	405 014 4608	TR 2SC2412K T146 S	C5001	403 205 7803	TA-SOL ID 2. 2U M 16V
	405 015 8704	TR 2SC2812-L6-TB	C5002	403 205 7803	TA-SOL ID 2. 2U M 16V
	405 015 8902	TR 2SC2812-L7-TB	C5003	403 205 7803	TA-SOL ID 2. 2U M 16V
Q3031	405 014 4509	TR 2SC2412K T146 R	C5004	403 205 7803	TA-SOL ID 2. 2U M 16V
	405 014 4608	TR 2SC2412K T146 S	C5006	403 162 6604	ELECT 2. 2U M 50V
	405 015 8704	TR 2SC2812-L6-TB	C5012	403 229 3508	ELECT 100U M 16V
	405 015 8902	TR 2SC2812-L7-TB	C5013	403 314 5905	CERAMIC 0. 47U K 16V
Q3091	405 035 1105	TR FMW1-T98	C5014	403 314 5905	CERAMIC 0. 47U K 16V
Q3092	405 035 1105	TR FMW1-T98	RESISTOR		
Q3093	405 014 4509	TR 2SC2412K T146 R	RB5001	645 025 5397	R-NETWORK 100KX4 1/16W
	405 014 4608	TR 2SC2412K T146 S		645 026 8021	R-NETWORK 100KX4 1/16W
	405 015 8704	TR 2SC2812-L6-TB	R1001	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R1002	401 147 7806	MT-GLAZE 180 FA 1/10W
Q5056	405 014 4509	TR 2SC2412K T146 R	R1003	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 014 4608	TR 2SC2412K T146 S	R1004	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R1005	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R1006	401 147 7806	MT-GLAZE 180 FA 1/10W
Q5057	405 014 4509	TR 2SC2412K T146 R	R1011	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 014 4608	TR 2SC2412K T146 S	R1012	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R1013	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R1014	401 147 7806	MT-GLAZE 180 FA 1/10W
Q5058	405 014 4509	TR 2SC2412K T146 R	R1015	401 037 5202	MT-GLAZE 100 JA 1/10W
	405 014 4608	TR 2SC2412K T146 S	R1021	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R1022	401 147 7806	MT-GLAZE 180 FA 1/10W
	405 015 8902	TR 2SC2812-L7-TB	R1023	401 147 7806	MT-GLAZE 180 FA 1/10W
INTEGRATED CIRCUIT			R1024	401 147 7806	MT-GLAZE 180 FA 1/10W
IC3001	409 222 5709	IC MC14052BF	R1025	401 147 7806	MT-GLAZE 180 FA 1/10W
	409 051 2702	IC TC4052BF-TP1	R1026	401 147 7806	MT-GLAZE 180 FA 1/10W
IC3021	409 211 7301	IC MC14053BFL	R1031	401 147 7806	MT-GLAZE 180 FA 1/10W
	409 051 2900	IC TC4053BF-TP1	R1032	401 147 7806	MT-GLAZE 180 FA 1/10W
IC3041	409 346 0703	IC MC14577CFL1	R1033	401 147 7806	MT-GLAZE 180 FA 1/10W
IC3061	409 346 0703	IC MC14577CFL1	R1034	401 147 7806	MT-GLAZE 180 FA 1/10W
IC3081	409 346 0703	IC MC14577CFL1	R1035	401 037 5202	MT-GLAZE 100 JA 1/10W
IC5001	409 211 7301	IC MC14053BFL	R1051	401 038 6604	MT-GLAZE 470K JA 1/10W
	409 051 2900	IC TC4053BF-TP1	R1053	401 038 9506	MT-GLAZE 75 JA 1/10W
CAPACITOR			R1054	401 038 6604	MT-GLAZE 470K JA 1/10W
C1013	403 069 9500	CERAMIC 0. 01U Z 50V	R1056	401 038 9506	MT-GLAZE 75 JA 1/10W
C1033	403 069 9500	CERAMIC 0. 01U Z 50V	R1057	401 038 6604	MT-GLAZE 470K JA 1/10W
C1063	403 069 9500	CERAMIC 0. 01U Z 50V	R1059	401 038 9506	MT-GLAZE 75 JA 1/10W
C3001	403 175 3300	ELECT 47U M 16V	R1061	401 038 6604	MT-GLAZE 470K JA 1/10W
C3002	403 175 3300	ELECT 47U M 16V	R1062	401 038 9506	MT-GLAZE 75 JA 1/10W
C3003	403 175 3300	ELECT 47U M 16V	R1063	401 038 6604	MT-GLAZE 470K JA 1/10W
C3004	403 175 3300	ELECT 47U M 16V	R1064	401 038 9506	MT-GLAZE 75 JA 1/10W
C3005	403 175 3300	ELECT 47U M 16V	R1065	401 037 5202	MT-GLAZE 100 JA 1/10W
C3006	403 314 5905	CERAMIC 0. 47U K 16V	R3001	401 037 5608	MT-GLAZE 10K JA 1/10W
C3007	403 175 3300	ELECT 47U M 16V	R3002	401 037 5608	MT-GLAZE 10K JA 1/10W
C3008	403 314 5905	CERAMIC 0. 47U K 16V	R3003	401 037 5608	MT-GLAZE 10K JA 1/10W
C3016	403 175 3300	ELECT 47U M 16V	R3004	401 037 5608	MT-GLAZE 10K JA 1/10W
C3017	403 192 5905	CERAMIC 0. 1U K 25V	R3005	401 037 5608	MT-GLAZE 10K JA 1/10W
C3018	403 192 5905	CERAMIC 0. 1U K 25V	R3006	401 037 5608	MT-GLAZE 10K JA 1/10W
			R3007	401 037 5608	MT-GLAZE 10K JA 1/10W

# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R3008	401 037 5608	MT-GLAZE 10K JA 1/10W	R5063	401 038 6604	MT-GLAZE 470K JA 1/10W
R3010	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5064	401 037 5202	MT-GLAZE 100 JA 1/10W
R3011	401 038 9001	MT-GLAZE 680 JA 1/10W	R5071	401 038 6604	MT-GLAZE 470K JA 1/10W
R3012	401 038 9001	MT-GLAZE 680 JA 1/10W	R5072	401 037 5202	MT-GLAZE 100 JA 1/10W
R3013	401 038 9001	MT-GLAZE 680 JA 1/10W	R5073	401 038 6604	MT-GLAZE 470K JA 1/10W
R3014	401 038 9001	MT-GLAZE 680 JA 1/10W	R5074	401 037 5202	MT-GLAZE 100 JA 1/10W
R3015	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5081	401 037 5707	MT-GLAZE 100K JA 1/10W
R3016	401 092 2208	MT-GLAZE 10K FA 1/10W	R5082	401 037 5202	MT-GLAZE 100 JA 1/10W
R3017	403 323 8805	CERAMIC 2.2U Z 16V	R5083	401 037 5707	MT-GLAZE 100K JA 1/10W
	403 255 7907	CERAMIC 2.2U Z 16V	R5084	401 037 5202	MT-GLAZE 100 JA 1/10W
R3017TM	401 027 8503	CARBON 8.2K GA 1/6W			
R3018	401 037 5202	MT-GLAZE 100 JA 1/10W	COIL		
R3019	401 037 5202	MT-GLAZE 100 JA 1/10W	L1001	645 008 4904	INDUCTOR, 5.6U K
R3021	401 038 7700	MT-GLAZE 5.6K JA 1/10W	L1002	645 002 3910	FILTER, EMI 100MHZ
R3022	401 038 7700	MT-GLAZE 5.6K JA 1/10W	L1003	645 008 4904	INDUCTOR, 5.6U K
R3023	401 037 5707	MT-GLAZE 100K JA 1/10W	L1004	645 002 3910	FILTER, EMI 100MHZ
R3024	401 037 5707	MT-GLAZE 100K JA 1/10W	L1005	645 008 4904	INDUCTOR, 5.6U K
R3025	401 037 5608	MT-GLAZE 10K JA 1/10W	L1006	645 002 3910	FILTER, EMI 100MHZ
R3026	401 037 5608	MT-GLAZE 10K JA 1/10W	L1011	645 008 4904	INDUCTOR, 5.6U K
R3027	401 037 5608	MT-GLAZE 10K JA 1/10W	L1012	645 002 3910	FILTER, EMI 100MHZ
R3028	401 037 5202	MT-GLAZE 100 JA 1/10W	L1013	645 008 4904	INDUCTOR, 5.6U K
R3029	401 037 5202	MT-GLAZE 100 JA 1/10W	L1014	645 002 3910	FILTER, EMI 100MHZ
R3031	401 038 9001	MT-GLAZE 680 JA 1/10W	L1015	645 014 2659	FILTER, EMI 10MHZ
R3032	401 038 9001	MT-GLAZE 680 JA 1/10W	L1021	645 008 4904	INDUCTOR, 5.6U K
R3036	401 037 5608	MT-GLAZE 10K JA 1/10W	L1022	645 002 3910	FILTER, EMI 100MHZ
R3037	403 323 8805	CERAMIC 2.2U Z 16V	L1023	645 008 4904	INDUCTOR, 5.6U K
	403 255 7907	CERAMIC 2.2U Z 16V	L1024	645 002 3910	FILTER, EMI 100MHZ
R3037TM	401 024 7400	CARBON 10K JA 1/6W	L1025	645 008 4904	INDUCTOR, 5.6U K
R3044	401 037 5400	MT-GLAZE 1K JA 1/10W	L1026	645 002 3910	FILTER, EMI 100MHZ
R3045	401 037 5400	MT-GLAZE 1K JA 1/10W	L1031	645 008 4904	INDUCTOR, 5.6U K
R3046	401 038 0800	MT-GLAZE 22K JA 1/10W	L1032	645 002 3910	FILTER, EMI 100MHZ
R3047	401 037 5608	MT-GLAZE 10K JA 1/10W	L1033	645 008 4904	INDUCTOR, 5.6U K
R3054	401 037 5400	MT-GLAZE 1K JA 1/10W	L1034	645 002 3910	FILTER, EMI 100MHZ
R3055	401 037 5400	MT-GLAZE 1K JA 1/10W	L1035	645 014 2659	FILTER, EMI 10MHZ
R3056	401 038 0800	MT-GLAZE 22K JA 1/10W	L1051	645 008 4904	INDUCTOR, 5.6U K
R3057	401 037 5608	MT-GLAZE 10K JA 1/10W	L1052	645 002 3910	FILTER, EMI 100MHZ
R3064	401 037 5400	MT-GLAZE 1K JA 1/10W	L1053	645 008 4904	INDUCTOR, 5.6U K
R3065	401 037 5400	MT-GLAZE 1K JA 1/10W	L1054	645 002 3910	FILTER, EMI 100MHZ
R3066	401 038 0800	MT-GLAZE 22K JA 1/10W	L1055	645 008 4904	INDUCTOR, 5.6U K
R3067	401 037 5608	MT-GLAZE 10K JA 1/10W	L1056	645 002 3910	FILTER, EMI 100MHZ
R3074	401 037 5400	MT-GLAZE 1K JA 1/10W	L1061	645 008 4904	INDUCTOR, 5.6U K
R3075	401 037 5400	MT-GLAZE 1K JA 1/10W	L1062	645 002 3910	FILTER, EMI 100MHZ
R3076	401 038 0800	MT-GLAZE 22K JA 1/10W	L1063	645 008 4904	INDUCTOR, 5.6U K
R3077	401 037 5608	MT-GLAZE 10K JA 1/10W	L1064	645 002 3910	FILTER, EMI 100MHZ
R3084	401 037 5400	MT-GLAZE 1K JA 1/10W	L1065	645 014 2659	FILTER, EMI 10MHZ
R3085	401 037 5400	MT-GLAZE 1K JA 1/10W	L5061	645 014 2659	FILTER, EMI 10MHZ
R3086	401 038 0800	MT-GLAZE 22K JA 1/10W	L5062	645 014 2659	FILTER, EMI 10MHZ
R3087	401 037 5608	MT-GLAZE 10K JA 1/10W	L5071	645 014 2659	FILTER, EMI 10MHZ
R3091	401 037 5608	MT-GLAZE 10K JA 1/10W	L5072	645 014 2659	FILTER, EMI 10MHZ
R3092	401 037 5608	MT-GLAZE 10K JA 1/10W	L5081	645 014 2659	FILTER, EMI 10MHZ
R3093	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L5082	645 014 2659	FILTER, EMI 10MHZ
R3094	401 038 7700	MT-GLAZE 5.6K JA 1/10W			
R3095	401 038 0800	MT-GLAZE 22K JA 1/10W	DIODE		
R3097	401 037 5400	MT-GLAZE 1K JA 1/10W	D1001	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R3098	401 037 5400	MT-GLAZE 1K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R3099	401 038 5300	MT-GLAZE 39K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y (TE85R)
R5006	401 038 3603	MT-GLAZE 3.3K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z (TE85R)
R5007	401 038 3603	MT-GLAZE 3.3K JA 1/10W	D1002	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R5009	401 037 5202	MT-GLAZE 100 JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R5013	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3803	ZD 02CZ6. 2Y (TE85R)
R5014	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3902	ZD 02CZ6. 2Z (TE85R)
R5015	401 037 5608	MT-GLAZE 10K JA 1/10W	D1003	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R5016	401 037 5608	MT-GLAZE 10K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R5017	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 3803	ZD 02CZ6. 2Y (TE85R)
R5019	401 037 5202	MT-GLAZE 100 JA 1/10W		407 175 3902	ZD 02CZ6. 2Z (TE85R)
R5056	401 037 5608	MT-GLAZE 10K JA 1/10W	D1004	407 071 7301	ZENER DIODE DZD6. 2Y-TA
R5057	401 038 7700	MT-GLAZE 5.6K JA 1/10W		407 071 7400	ZENER DIODE DZD6. 2Z-TA
R5058	401 038 6307	MT-GLAZE 470 JA 1/10W		407 175 3803	ZD 02CZ6. 2Y (TE85R)
R5061	401 038 6604	MT-GLAZE 470K JA 1/10W		407 175 3902	ZD 02CZ6. 2Z (TE85R)
R5062	401 037 5202	MT-GLAZE 100 JA 1/10W	D1005	407 071 7301	ZENER DIODE DZD6. 2Y-TA

### 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D1006	407 071 7400	ZENER DIODE DZD6. 2Z-TA	D1051	407 071 0104	ZENER DIODE DZD12Y-TA
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 071 0203	ZENER DIODE DZD12Z-TA
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 199 6200	ZD 02CZ12X (TE85R)
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 175 2806	ZD 02CZ12Y (TE85R)
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 175 2905	ZD 02CZ12Z (TE85R)
D1011	407 175 3803	ZD 02CZ6. 2Y (TE85R)	D1052	407 071 7301	ZENER DIODE DZD6. 2Y-TA
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 071 7400	ZENER DIODE DZD6. 2Z-TA
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 175 3803	ZD 02CZ6. 2Y (TE85R)
D1012	407 071 7400	ZENER DIODE DZD6. 2Z-TA	D1053	407 175 3902	ZD 02CZ6. 2Z (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 071 7301	ZENER DIODE DZD6. 2Y-TA
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 071 7400	ZENER DIODE DZD6. 2Z-TA
D1013	407 071 7301	ZENER DIODE DZD6. 2Y-TA	D1054	407 175 3803	ZD 02CZ6. 2Y (TE85R)
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 175 3902	ZD 02CZ6. 2Z (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 071 7301	ZENER DIODE DZD6. 2Y-TA
D1014	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D1055	407 071 7400	ZENER DIODE DZD6. 2Z-TA
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 175 3803	ZD 02CZ6. 2Y (TE85R)
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 175 3902	ZD 02CZ6. 2Z (TE85R)
D1015	407 175 3803	ZD 02CZ6. 2Y (TE85R)	D1056	407 071 7301	ZENER DIODE DZD6. 2Y-TA
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 071 7400	ZENER DIODE DZD6. 2Z-TA
	407 071 0005	ZENER DIODE DZD12X-TA		407 175 3803	ZD 02CZ6. 2Y (TE85R)
D1021	407 071 0104	ZENER DIODE DZD12Y-TA	D1061	407 175 3902	ZD 02CZ6. 2Z (TE85R)
	407 071 0203	ZENER DIODE DZD12Z-TA		407 071 7301	ZENER DIODE DZD6. 2Y-TA
	407 199 6200	ZD 02CZ12X (TE85R)		407 071 7400	ZENER DIODE DZD6. 2Z-TA
	407 175 2806	ZD 02CZ12Y (TE85R)		407 175 3803	ZD 02CZ6. 2Y (TE85R)
	407 175 2905	ZD 02CZ12Z (TE85R)		407 175 3902	ZD 02CZ6. 2Z (TE85R)
D1022	407 071 7301	ZENER DIODE DZD6. 2Y-TA	D1062	407 071 7301	ZENER DIODE DZD6. 2Y-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 071 7400	ZENER DIODE DZD6. 2Z-TA
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 175 3803	ZD 02CZ6. 2Y (TE85R)
D1023	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D1063	407 175 3902	ZD 02CZ6. 2Z (TE85R)
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 7301	ZENER DIODE DZD6. 2Y-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 071 7400	ZENER DIODE DZD6. 2Z-TA
D1024	407 175 3803	ZD 02CZ6. 2Y (TE85R)	D1064	407 175 3803	ZD 02CZ6. 2Y (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 175 3902	ZD 02CZ6. 2Z (TE85R)
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 7301	ZENER DIODE DZD6. 2Y-TA
D1025	407 071 7400	ZENER DIODE DZD6. 2Z-TA	D1065	407 071 7400	ZENER DIODE DZD6. 2Z-TA
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 175 3803	ZD 02CZ6. 2Y (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 175 3902	ZD 02CZ6. 2Z (TE85R)
D1026	407 071 7301	ZENER DIODE DZD6. 2Y-TA	D5051	407 071 0005	ZENER DIODE DZD12X-TA
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 071 0104	ZENER DIODE DZD12Y-TA
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 071 0203	ZENER DIODE DZD12Z-TA
D1031	407 175 3902	ZD 02CZ6. 2Z (TE85R)	D5052	407 199 6200	ZD 02CZ12X (TE85R)
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 175 2806	ZD 02CZ12Y (TE85R)
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 175 2905	ZD 02CZ12Z (TE85R)
D1032	407 175 3803	ZD 02CZ6. 2Y (TE85R)	D5057	407 071 0005	ZENER DIODE DZD12X-TA
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 071 0104	ZENER DIODE DZD12Y-TA
	407 071 7301	ZENER DIODE DZD6. 2Y-TA		407 071 0203	ZENER DIODE DZD12Z-TA
D1033	407 071 7400	ZENER DIODE DZD6. 2Z-TA	D5058	407 199 6200	ZD 02CZ12X (TE85R)
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 175 2806	ZD 02CZ12Y (TE85R)
	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 175 2905	ZD 02CZ12Z (TE85R)
D1034	407 071 7301	ZENER DIODE DZD6. 2Y-TA	D5061	407 004 8009	DIODE DSB015-TB
	407 071 7400	ZENER DIODE DZD6. 2Z-TA		407 004 8009	DIODE DSB015-TB
	407 175 3803	ZD 02CZ6. 2Y (TE85R)		407 071 0005	ZENER DIODE DZD12X-TA
D1035	407 175 3902	ZD 02CZ6. 2Z (TE85R)		407 071 0104	ZENER DIODE DZD12Y-TA
	407 071 0005	ZENER DIODE DZD12X-TA		407 071 0203	ZENER DIODE DZD12Z-TA
				407 199 6200	ZD 02CZ12X (TE85R)
				407 175 2806	ZD 02CZ12Y (TE85R)



# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
					MISCELLANEOUS
D5062	407 175 2905	ZD 02CZ12Z(Te85R)	K10G-1	610 012 5926	TERMINAL
	407 071 0005	ZENER DIODE DZD12X-TA	K10G-4	645 004 5387	FIXER CABLE TIES, L100
	407 071 0104	ZENER DIODE DZD12Y-TA	K10SA	645 006 0946	PLUG, 7P
	407 071 0203	ZENER DIODE DZD12Z-TA	K10TA	645 006 0939	PLUG, 6P
	407 199 6200	ZD 02CZ12X(Te85R)	K10UA	645 006 0977	PLUG, 10P
	407 175 2806	ZD 02CZ12Y(Te85R)	K1001	645 028 0405	SOCKET, BNC 3P
	407 175 2905	ZD 02CZ12Z(Te85R)	K1002	610 010 8295	SOCKET, DIN 4P
D5063	407 071 0005	ZENER DIODE DZD12X-TA	K1002A	610 266 0708	EARTH BRKT ST-M6FA
	407 071 0104	ZENER DIODE DZD12Y-TA	K1003	645 030 1919	JACK, RCA-2
	407 071 0203	ZENER DIODE DZD12Z-TA	K1003A	610 260 2203	SHIELD PLATE-E-M6DA
	407 199 6200	ZD 02CZ12X(Te85R)	K1004	645 028 0405	SOCKET, BNC 3P
	407 175 2806	ZD 02CZ12Y(Te85R)	K1005	610 010 8295	SOCKET, DIN 4P
	407 175 2905	ZD 02CZ12Z(Te85R)	K1005A	610 266 0708	EARTH BRKT ST-M6FA
D5064	407 071 0005	ZENER DIODE DZD12X-TA	K1006	645 030 1919	JACK, RCA-2
	407 071 0104	ZENER DIODE DZD12Y-TA	K1006A	610 260 2203	SHIELD PLATE-E-M6DA
	407 071 0203	ZENER DIODE DZD12Z-TA	K1007	645 028 0405	SOCKET, BNC 3P
	407 199 6200	ZD 02CZ12X(Te85R)	K1008	610 010 8295	SOCKET, DIN 4P
	407 175 2806	ZD 02CZ12Y(Te85R)	K1008A	610 266 0708	EARTH BRKT ST-M6FA
	407 175 2905	ZD 02CZ12Z(Te85R)	K1009	645 030 1919	JACK, RCA-2
D5071	407 071 0005	ZENER DIODE DZD12X-TA	K1009A	610 260 2203	SHIELD PLATE-E-M6DA
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5072	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5073	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5074	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5081	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5082	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5083	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			
D5084	407 071 0005	ZENER DIODE DZD12X-TA			
	407 071 0104	ZENER DIODE DZD12Y-TA			
	407 071 0203	ZENER DIODE DZD12Z-TA			
	407 199 6200	ZD 02CZ12X(Te85R)			
	407 175 2806	ZD 02CZ12Y(Te85R)			
	407 175 2905	ZD 02CZ12Z(Te85R)			

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
610 273 5987 ASSY, PWB, MAIN P6MA 1AA0B10C1750A					
TRANSISTOR					
Q1201	405 014 4509	TR 2SC2412K T146 R	IC231	409 142 2000	IC LA6358NM-TP-T1
Q1451	405 014 4509	TR 2SC2412K T146 R	IC2501	409 343 0201	IC LT1206CS8
Q1871	405 014 4509	TR 2SC2412K T146 R	IC2511	409 419 3709	IC MC10H351ML1
Q221	405 014 4509	TR 2SC2412K T146 R	IC301	409 400 8102	IC LC26038A-LB4
Q2210	405 014 4509	TR 2SC2412K T146 R	IC3301	409 407 3100	IC LC21050B-LE4
Q231	405 047 4606	TR 2SC3650-TD	IC331	409 400 8102	IC LC26038A-LB4
Q232	405 002 8304	TR 2SA1203-Y-TE12R	IC3331	409 422 5509	IC MC74AC244DT
Q451	405 014 4509	TR 2SC2412K T146 R		409 418 2208	IC TC74AC244FT(EL)
Q841	405 014 4509	TR 2SC2412K T146 R	IC3341	409 422 5509	IC MC74AC244DT
Q858	405 014 4509	TR 2SC2412K T146 R		409 418 2208	IC TC74AC244FT(EL)
Q859	405 014 4509	TR 2SC2412K T146 R	IC3351	410 308 2000	IC UPD65943GJ-011-JEU
Q861	405 014 4509	TR 2SC2412K T146 R	IC3352	409 422 8401	IC LM3940IMP-3.3
Q862	405 014 4509	TR 2SC2412K T146 R	IC3353	409 344 1900	IC MN1382-Q-TX
Q882	405 014 4509	TR 2SC2412K T146 R	IC3354	410 311 5708	IC MC74HCT244ADT
Q883	405 002 0308	TR 2SA1037K T146 R		410 315 5506	IC HD74HCT244TV
INTEGRATED CIRCUIT			IC3355	409 372 2702	IC TC7WH74FU-(TE12L)
IC1201	409 404 2106	IC ICS1522M-ER	IC351	409 400 8102	IC LC26038A-LB4
IC1202	409 380 8109	IC HD74HC00T-EL	IC401	409 419 2603	IC CXA2111R
	409 422 5608	IC MC74HC00ADT	IC451	409 241 9405	IC L88MS05T-TL
IC1203	409 318 0106	IC DS1020S-025	IC481	409 428 7200	IC HD74AC04T
IC1251	410 295 8603	IC EPM7032LC44-7		409 422 5400	IC MC74AC04DT
IC1401	409 326 3007	IC M62358FP		409 423 7205	IC TC74AC04FT
IC1451	409 241 9405	IC L88MS05T-TL	IC501	409 419 2702	IC CXA2112R
IC1501	409 419 2702	IC CXA2112R	IC531	409 419 2702	IC CXA2112R
IC1531	409 419 2702	IC CXA2112R	IC561	409 419 2702	IC CXA2112R
IC1561	409 419 2702	IC CXA2112R	IC801	410 309 9602	IC HD64F7045F28-B217
IC1801	410 316 4409	IC M37532M4-XXXFP-B271	IC802	410 309 9404	IC MBM29F800B-12P-B215
	410 316 4508	IC M37532E8FP-B271A		410 320 6000	IC MBM29F800B-90P-B297
IC1811	410 316 4409	IC M37532M4-XXXFP-B271	IC803	410 311 3100	IC MC74HC245ADT
	410 316 4508	IC M37532E8FP-B271A		410 311 3308	IC TC74HC245AFT
IC1812	409 344 1900	IC MN1382-Q-TX		410 312 2508	IC HD74HC245T-EL
IC204	409 403 9809	IC CXA3026AQ	IC804	410 311 3100	IC MC74HC245ADT
IC205	409 403 9908	IC LC21011B-LC3		410 311 3308	IC TC74HC245AFT
IC206	409 403 9809	IC CXA3026AQ		410 312 2508	IC HD74HC245T-EL
IC207	409 403 9908	IC LC21011B-LC3	IC805	409 368 5809	IC TC7SH08FU(TE85L)
IC208	409 403 9809	IC CXA3026AQ	IC806	409 339 3605	IC 24LC16BT/SN-T
IC209	409 403 9908	IC LC21011B-LC3	IC807	409 344 1900	IC MN1382-Q-TX
IC2201	409 404 3202	IC LC21050B-LB3	CAPACITOR		
IC2202	409 422 5509	IC MC74AC244DT	C1201	403 070 2606	CERAMIC 0.1U Z 50V
	409 418 2208	IC TC74AC244FT(EL)	C1202	403 024 7107	CERAMIC 390P J 50V
IC2203	409 428 7309	IC HD74HC244TV	C1203	403 072 1607	CERAMIC 0.022U K 50V
	410 311 3001	IC MC74HC244ADT	C1204	403 175 4109	ELECT 22U M 16V
IC2204	409 428 7309	IC HD74HC244TV	C1205	403 069 9500	CERAMIC 0.01U Z 50V
	410 311 3001	IC MC74HC244ADT	C1206	403 175 4109	ELECT 22U M 16V
IC2205	409 422 5509	IC MC74AC244DT	C1207	403 070 2606	CERAMIC 0.1U Z 50V
	409 418 2208	IC TC74AC244FT(EL)	C1208	403 070 2606	CERAMIC 0.1U Z 50V
IC2206	409 422 5509	IC MC74AC244DT	C1209	403 069 9500	CERAMIC 0.01U Z 50V
	409 418 2208	IC TC74AC244FT(EL)	C1211	403 069 1702	CERAMIC 1000P K 50V
IC2208	409 428 7200	IC HD74AC04T	C1212	403 070 2606	CERAMIC 0.1U Z 50V
	409 422 5400	IC MC74AC04DT	C1231	403 280 0607	ELECT 220U M 6.3V
	409 423 7205	IC TC74AC04FT		403 322 7809	ELECT 220U M 6.3V
IC2209	409 422 5509	IC MC74AC244DT	C1232	403 070 2606	CERAMIC 0.1U Z 50V
	409 418 2208	IC TC74AC244FT(EL)	C1251	403 280 0607	ELECT 220U M 6.3V
IC221	409 357 6602	IC LT1260CS		403 322 7809	ELECT 220U M 6.3V
IC2210	410 311 5708	IC MC74HCT244ADT	C1252	403 070 2606	CERAMIC 0.1U Z 50V
	410 315 5506	IC HD74HCT244TV	C1253	403 070 2606	CERAMIC 0.1U Z 50V
IC2211	410 311 3209	IC 74VHC123AMTC	C1254	403 018 7403	CERAMIC 220P J 50V
IC2301	410 289 4604	IC MSM5416283-60GS-KR1	C1260	403 069 9500	CERAMIC 0.01U Z 50V
IC2302	410 289 4604	IC MSM5416283-60GS-KR1	C1401	403 070 2606	CERAMIC 0.1U Z 50V
IC2303	410 289 4604	IC MSM5416283-60GS-KR1	C1402	403 069 9500	CERAMIC 0.01U Z 50V
IC2304	410 289 4604	IC MSM5416283-60GS-KR1	C1403	403 229 3508	ELECT 100U M 16V
IC2305	410 289 4604	IC MSM5416283-60GS-KR1			
IC2306	410 289 4604	IC MSM5416283-60GS-KR1			

# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C1451	403 280 0607	ELECT 220U M 6.3V	C2273	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C2274	403 070 2606	CERAMIC 0.1U Z 50V
C1452	403 280 0607	ELECT 220U M 6.3V	C2281	403 069 9500	CERAMIC 0.01U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C2282	403 070 2606	CERAMIC 0.1U Z 50V
C1453	403 070 2606	CERAMIC 0.1U Z 50V	C2283	403 070 2606	CERAMIC 0.1U Z 50V
C1501	403 229 3508	ELECT 100U M 16V	C230	403 022 8205	CERAMIC 33P J 50V
C1502	403 070 2606	CERAMIC 0.1U Z 50V	C2301	403 280 0607	ELECT 220U M 6.3V
C1503	403 229 3508	ELECT 100U M 16V		403 322 7809	ELECT 220U M 6.3V
C1504	403 070 2606	CERAMIC 0.1U Z 50V	C2302	403 070 2606	CERAMIC 0.1U Z 50V
C1531	403 229 3508	ELECT 100U M 16V	C2303	403 070 2606	CERAMIC 0.1U Z 50V
C1532	403 070 2606	CERAMIC 0.1U Z 50V	C231	403 070 2606	CERAMIC 0.1U Z 50V
C1533	403 229 3508	ELECT 100U M 16V	C2311	403 070 2606	CERAMIC 0.1U Z 50V
C1534	403 070 2606	CERAMIC 0.1U Z 50V	C2312	403 070 2606	CERAMIC 0.1U Z 50V
C1551TM	403 067 5603	MT-COMPO 0.1U J 50V	C232	403 070 2606	CERAMIC 0.1U Z 50V
C1561	403 229 3508	ELECT 100U M 16V	C2321	403 280 0607	ELECT 220U M 6.3V
C1562	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V
C1563	403 229 3508	ELECT 100U M 16V	C2322	403 070 2606	CERAMIC 0.1U Z 50V
C1564	403 070 2606	CERAMIC 0.1U Z 50V	C2323	403 070 2606	CERAMIC 0.1U Z 50V
C1801	403 175 3904	ELECT 10U M 25V	C233	403 070 2606	CERAMIC 0.1U Z 50V
C1805	403 070 2606	CERAMIC 0.1U Z 50V	C2331	403 070 2606	CERAMIC 0.1U Z 50V
C1806	403 070 2606	CERAMIC 0.1U Z 50V	C2332	403 070 2606	CERAMIC 0.1U Z 50V
C1807	403 070 2606	CERAMIC 0.1U Z 50V	C234	403 070 2606	CERAMIC 0.1U Z 50V
C1808	403 070 2606	CERAMIC 0.1U Z 50V	C2341	403 280 0607	ELECT 220U M 6.3V
C1809	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V
C1811	403 175 3904	ELECT 10U M 25V	C2342	403 070 2606	CERAMIC 0.1U Z 50V
C1814	403 070 2606	CERAMIC 0.1U Z 50V	C2343	403 070 2606	CERAMIC 0.1U Z 50V
C1815	403 316 5408	CERAMIC 1U K 10V	C235	403 070 2606	CERAMIC 0.1U Z 50V
C1816	403 070 2606	CERAMIC 0.1U Z 50V	C2351	403 070 2606	CERAMIC 0.1U Z 50V
C1817	403 280 0607	ELECT 220U M 6.3V	C2352	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C236	403 070 2606	CERAMIC 0.1U Z 50V
C1871	403 070 2606	CERAMIC 0.1U Z 50V	C2363	403 020 0409	CERAMIC 27P J 50V
C201	403 280 0607	ELECT 220U M 6.3V	C2364	403 020 0409	CERAMIC 27P J 50V
	403 322 7809	ELECT 220U M 6.3V	C238	403 022 8205	CERAMIC 33P J 50V
C202	403 070 2606	CERAMIC 0.1U Z 50V	C240	403 014 3409	CERAMIC 18P J 50V
C203	403 280 0607	ELECT 220U M 6.3V	C241	403 208 1402	TA-SOLID 1U M 25V
	403 322 7809	ELECT 220U M 6.3V	C242	403 070 2606	CERAMIC 0.1U Z 50V
C204	403 070 2606	CERAMIC 0.1U Z 50V	C243	403 070 2606	CERAMIC 0.1U Z 50V
C205	403 267 0804	NP-ELECT 47U M 6.3V	C244	403 070 2606	CERAMIC 0.1U Z 50V
C206	403 267 0804	NP-ELECT 47U M 6.3V	C245	403 175 3904	ELECT 10U M 25V
C207	403 267 0804	NP-ELECT 47U M 6.3V	C246	403 070 2606	CERAMIC 0.1U Z 50V
C2201	403 070 2606	CERAMIC 0.1U Z 50V	C247	403 070 2606	CERAMIC 0.1U Z 50V
C2203	403 316 5408	CERAMIC 1U K 10V	C248	403 208 1402	TA-SOLID 1U M 25V
C2205	403 070 2606	CERAMIC 0.1U Z 50V	C249	403 070 2606	CERAMIC 0.1U Z 50V
C2207	403 069 1702	CERAMIC 1000P K 50V	C250	403 022 8205	CERAMIC 33P J 50V
C2208	403 070 2606	CERAMIC 0.1U Z 50V	C2501	403 070 2606	CERAMIC 0.1U Z 50V
C2209	403 069 1702	CERAMIC 1000P K 50V	C2502	403 229 3508	ELECT 100U M 16V
C221	403 070 2606	CERAMIC 0.1U Z 50V	C2503	403 069 5601	CERAMIC 0.01U K 50V
C2210	403 070 2606	CERAMIC 0.1U Z 50V	C251	403 070 2606	CERAMIC 0.1U Z 50V
C2211	403 280 0607	ELECT 220U M 6.3V	C2511	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C2512	403 280 0607	ELECT 220U M 6.3V
C2212	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V
C222	403 280 0607	ELECT 220U M 6.3V	C252	403 175 3904	ELECT 10U M 25V
	403 322 7809	ELECT 220U M 6.3V	C253	403 070 2606	CERAMIC 0.1U Z 50V
C223	403 070 2606	CERAMIC 0.1U Z 50V	C255	403 175 3904	ELECT 10U M 25V
C224	403 070 2606	CERAMIC 0.1U Z 50V	C2550	403 070 2606	CERAMIC 0.1U Z 50V
C225	403 070 2606	CERAMIC 0.1U Z 50V	C2551	403 229 3508	ELECT 100U M 16V
C2251	403 022 8205	CERAMIC 33P J 50V	C2552	403 070 2606	CERAMIC 0.1U Z 50V
C2252	403 022 8205	CERAMIC 33P J 50V	C2553	403 229 3508	ELECT 100U M 16V
C2253	403 229 3508	ELECT 100U M 16V	C2554	403 070 2606	CERAMIC 0.1U Z 50V
C2254	403 069 9500	CERAMIC 0.01U Z 50V	C2555	403 070 2606	CERAMIC 0.1U Z 50V
C2255	403 069 9500	CERAMIC 0.01U Z 50V	C2556	403 070 2606	CERAMIC 0.1U Z 50V
C2256	403 069 9500	CERAMIC 0.01U Z 50V	C2558	403 070 2606	CERAMIC 0.1U Z 50V
C226	403 070 2606	CERAMIC 0.1U Z 50V	C2559	403 070 2606	CERAMIC 0.1U Z 50V
C2261	403 070 2606	CERAMIC 0.1U Z 50V	C256	403 070 2606	CERAMIC 0.1U Z 50V
C2262	403 316 5408	CERAMIC 1U K 10V	C2560	403 070 2606	CERAMIC 0.1U Z 50V
C2263	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C2561	403 070 2606	CERAMIC 0.1U Z 50V
C227	403 229 3508	ELECT 100U M 16V	C2562	403 070 2606	CERAMIC 0.1U Z 50V
C2271	403 280 0607	ELECT 220U M 6.3V	C257	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C2570	403 070 2606	CERAMIC 0.1U Z 50V
C2272	403 070 2606	CERAMIC 0.1U Z 50V	C2571	403 175 4109	ELECT 22U M 16V

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C2572	403 175 4109	ELECT 22U M 16V	C353	403 280 0607	ELECT 220U M 6.3V
C2573	403 175 4109	ELECT 22U M 16V		403 322 7809	ELECT 220U M 6.3V
C258	403 022 8205	CERAMIC 33P J 50V	C401	403 070 2606	CERAMIC 0.1U Z 50V
C259	403 022 8205	CERAMIC 33P J 50V	C402	403 316 5408	CERAMIC 1U K 10V
C260	403 022 8205	CERAMIC 33P J 50V	C403	403 316 5408	CERAMIC 1U K 10V
C261	403 208 1402	TA-SOLID 1U M 25V	C404	403 316 5408	CERAMIC 1U K 10V
C262	403 070 2606	CERAMIC 0.1U Z 50V	C405	403 316 5408	CERAMIC 1U K 10V
C263	403 070 2606	CERAMIC 0.1U Z 50V	C406	403 316 5408	CERAMIC 1U K 10V
C264	403 070 2606	CERAMIC 0.1U Z 50V	C407	403 316 5408	CERAMIC 1U K 10V
C265	403 175 3904	ELECT 10U M 25V	C408	403 069 9500	CERAMIC 0.01U Z 50V
C266	403 070 2606	CERAMIC 0.1U Z 50V	C409	403 280 0607	ELECT 220U M 6.3V
C267	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V
C268	403 208 1402	TA-SOLID 1U M 25V	C411	403 070 2606	CERAMIC 0.1U Z 50V
C269	403 070 2606	CERAMIC 0.1U Z 50V	C412	403 280 0607	ELECT 220U M 6.3V
C270	403 014 3409	CERAMIC 18P J 50V		403 322 7809	ELECT 220U M 6.3V
C271	403 070 2606	CERAMIC 0.1U Z 50V	C413	403 070 2606	CERAMIC 0.1U Z 50V
C272	403 175 3904	ELECT 10U M 25V	C414	403 069 9500	CERAMIC 0.01U Z 50V
C273	403 070 2606	CERAMIC 0.1U Z 50V	C415	403 069 9500	CERAMIC 0.01U Z 50V
C275	403 175 3904	ELECT 10U M 25V	C416	403 069 9500	CERAMIC 0.01U Z 50V
C276	403 070 2606	CERAMIC 0.1U Z 50V	C421	403 192 5905	CERAMIC 0.1U K 25V
C277	403 070 2606	CERAMIC 0.1U Z 50V	C422	403 192 5905	CERAMIC 0.1U K 25V
C278	403 022 8205	CERAMIC 33P J 50V	C423	403 192 5905	CERAMIC 0.1U K 25V
C279	403 022 8205	CERAMIC 33P J 50V	C451	403 280 0607	ELECT 220U M 6.3V
C280	403 022 8205	CERAMIC 33P J 50V		403 322 7809	ELECT 220U M 6.3V
C281	403 208 1402	TA-SOLID 1U M 25V	C452	403 280 0607	ELECT 220U M 6.3V
C282	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V
C283	403 070 2606	CERAMIC 0.1U Z 50V	C481	403 070 2606	CERAMIC 0.1U Z 50V
C284	403 070 2606	CERAMIC 0.1U Z 50V	C500	403 280 0607	ELECT 220U M 6.3V
C285	403 175 3904	ELECT 10U M 25V		403 322 7809	ELECT 220U M 6.3V
C286	403 070 2606	CERAMIC 0.1U Z 50V	C501	403 070 2606	CERAMIC 0.1U Z 50V
C287	403 070 2606	CERAMIC 0.1U Z 50V	C502	403 229 3508	ELECT 100U M 16V
C288	403 208 1402	TA-SOLID 1U M 25V	C503	403 069 9500	CERAMIC 0.01U Z 50V
C289	403 070 2606	CERAMIC 0.1U Z 50V	C504	403 069 9500	CERAMIC 0.01U Z 50V
C290	403 014 3409	CERAMIC 18P J 50V	C506	403 070 2606	CERAMIC 0.1U Z 50V
C291	403 070 2606	CERAMIC 0.1U Z 50V	C507	403 175 4109	ELECT 22U M 16V
C292	403 175 3904	ELECT 10U M 25V	C508	403 070 2606	CERAMIC 0.1U Z 50V
C293	403 070 2606	CERAMIC 0.1U Z 50V	C509	403 020 0409	CERAMIC 27P J 50V
C295	403 175 3904	ELECT 10U M 25V	C510	403 070 2606	CERAMIC 0.1U Z 50V
C296	403 070 2606	CERAMIC 0.1U Z 50V	C530	403 070 2606	CERAMIC 0.1U Z 50V
C297	403 070 2606	CERAMIC 0.1U Z 50V	C531	403 070 2606	CERAMIC 0.1U Z 50V
C298	403 022 8205	CERAMIC 33P J 50V	C532	403 229 3508	ELECT 100U M 16V
C299	403 022 8205	CERAMIC 33P J 50V	C533	403 069 9500	CERAMIC 0.01U Z 50V
C300	403 022 8205	CERAMIC 33P J 50V	C534	403 069 9500	CERAMIC 0.01U Z 50V
C301	403 070 2606	CERAMIC 0.1U Z 50V	C536	403 070 2606	CERAMIC 0.1U Z 50V
C302	403 070 2606	CERAMIC 0.1U Z 50V	C537	403 175 4109	ELECT 22U M 16V
C303	403 280 0607	ELECT 220U M 6.3V	C538	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C539	403 020 0409	CERAMIC 27P J 50V
C3301	403 280 0607	ELECT 220U M 6.3V	C551TM	403 067 5603	MT-COMPO 0.1U J 50V
	403 322 7809	ELECT 220U M 6.3V	C560	403 070 2606	CERAMIC 0.1U Z 50V
C3302	403 069 9500	CERAMIC 0.01U Z 50V	C561	403 070 2606	CERAMIC 0.1U Z 50V
C3303	403 070 2606	CERAMIC 0.1U Z 50V	C563	403 069 9500	CERAMIC 0.01U Z 50V
C3304	403 070 2606	CERAMIC 0.1U Z 50V	C564	403 069 9500	CERAMIC 0.01U Z 50V
C3305	403 070 2606	CERAMIC 0.1U Z 50V	C565	403 229 3508	ELECT 100U M 16V
C331	403 070 2606	CERAMIC 0.1U Z 50V	C566	403 070 2606	CERAMIC 0.1U Z 50V
C332	403 070 2606	CERAMIC 0.1U Z 50V	C567	403 175 4109	ELECT 22U M 16V
C333	403 280 0607	ELECT 220U M 6.3V	C568	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C569	403 020 0409	CERAMIC 27P J 50V
C3331	403 070 2606	CERAMIC 0.1U Z 50V	C801	403 280 0607	ELECT 220U M 6.3V
C3341	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V
C3351	403 280 0607	ELECT 220U M 6.3V	C802	403 070 2606	CERAMIC 0.1U Z 50V
	403 322 7809	ELECT 220U M 6.3V	C803	403 070 2606	CERAMIC 0.1U Z 50V
C3352	403 070 2606	CERAMIC 0.1U Z 50V	C804	403 070 2606	CERAMIC 0.1U Z 50V
C3353	403 070 2606	CERAMIC 0.1U Z 50V	C805	403 316 5408	CERAMIC 1U K 10V
C3354	403 316 5408	CERAMIC 1U K 10V	C806	403 070 2606	CERAMIC 0.1U Z 50V
C3355	403 070 2606	CERAMIC 0.1U Z 50V	C809	403 175 3904	ELECT 10U M 25V
C3356	403 070 2606	CERAMIC 0.1U Z 50V	C811	403 022 8205	CERAMIC 33P J 50V
C3357	403 070 2606	CERAMIC 0.1U Z 50V	C812	403 022 8205	CERAMIC 33P J 50V
C350	403 022 8205	CERAMIC 33P J 50V	C813	403 070 2606	CERAMIC 0.1U Z 50V
C351	403 070 2606	CERAMIC 0.1U Z 50V	C814	403 280 0607	ELECT 220U M 6.3V
C352	403 070 2606	CERAMIC 0.1U Z 50V		403 322 7809	ELECT 220U M 6.3V

# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C815	403 070 2606	CERAMIC 0.1U Z 50V	RB533	645 028 5998	R-NETWORK 10X4 1/16W
C816	403 070 2606	CERAMIC 0.1U Z 50V	RB561	645 028 5998	R-NETWORK 10X4 1/16W
C817	403 070 2606	CERAMIC 0.1U Z 50V	RB562	645 028 5998	R-NETWORK 10X4 1/16W
C821	403 280 0607	ELECT 220U M 6.3V	RB563	645 028 5998	R-NETWORK 10X4 1/16W
	403 322 7809	ELECT 220U M 6.3V	RB801	645 026 8038	R-NETWORK 22KX4 1/16W
C822	403 070 2606	CERAMIC 0.1U Z 50V	RB802	645 026 8038	R-NETWORK 22KX4 1/16W
C831	403 070 2606	CERAMIC 0.1U Z 50V	RB803	645 026 8038	R-NETWORK 22KX4 1/16W
C832	403 280 0607	ELECT 220U M 6.3V	RB804	645 028 3215	R-NETWORK 100X4 1/16W
	403 322 7809	ELECT 220U M 6.3V	RB805	645 026 8038	R-NETWORK 22KX4 1/16W
C833	403 070 2606	CERAMIC 0.1U Z 50V	RB806	645 028 3215	R-NETWORK 100X4 1/16W
C834	403 192 5905	CERAMIC 0.1U K 25V	RB807	645 026 8038	R-NETWORK 22KX4 1/16W
C841	403 070 2606	CERAMIC 0.1U Z 50V	RB808	645 026 8038	R-NETWORK 22KX4 1/16W
C860TM	403 167 6500	ELECT 33U M 6.3V	RB809	645 026 8014	R-NETWORK 10KX4 1/16W
RESISTOR			RB811	645 026 8038	R-NETWORK 22KX4 1/16W
RB1202	645 028 3215	R-NETWORK 100X4 1/16W	RB812	645 026 8038	R-NETWORK 22KX4 1/16W
RB1801	645 028 3215	R-NETWORK 100X4 1/16W	RB813	645 026 8038	R-NETWORK 22KX4 1/16W
RB1802	645 028 3215	R-NETWORK 100X4 1/16W	RB814	645 026 8038	R-NETWORK 22KX4 1/16W
RB1803	645 028 3215	R-NETWORK 100X4 1/16W	RB815	645 026 8007	R-NETWORK 1KX4 1/16W
RB1804	645 028 3215	R-NETWORK 100X4 1/16W	R1201	645 026 1008	INDUCTOR, 3.3U M
RB1805	645 028 3215	R-NETWORK 100X4 1/16W	R1202	401 037 5103	MT-GLAZE 10 JA 1/10W
RB1806	645 026 8014	R-NETWORK 10KX4 1/16W	R1203	401 037 5103	MT-GLAZE 10 JA 1/10W
RB1807	645 028 3215	R-NETWORK 100X4 1/16W	R1211	401 038 9308	MT-GLAZE 68K JA 1/10W
RB1808	645 026 8038	R-NETWORK 22KX4 1/16W	R1212	401 038 7106	MT-GLAZE 510 JA 1/10W
RB1851	645 026 8038	R-NETWORK 22KX4 1/16W	R1213	401 038 3504	MT-GLAZE 330 JA 1/10W
RB1852	645 026 8038	R-NETWORK 22KX4 1/16W	R1214	401 037 5400	MT-GLAZE 1K JA 1/10W
RB1861	645 028 3215	R-NETWORK 100X4 1/16W	R1215	401 039 0304	MT-GLAZE 820 JA 1/10W
RB1862	645 028 3215	R-NETWORK 100X4 1/16W	R1216	401 037 5400	MT-GLAZE 1K JA 1/10W
RB1863	645 028 3215	R-NETWORK 100X4 1/16W	R1217	401 038 6505	MT-GLAZE 47K JA 1/10W
RB2209	645 028 3215	R-NETWORK 100X4 1/16W	R1218	401 037 5608	MT-GLAZE 10K JA 1/10W
RB2261	645 026 8038	R-NETWORK 22KX4 1/16W	R1219	401 038 5102	MT-GLAZE 3.9K JA 1/10W
RB2262	645 026 8038	R-NETWORK 22KX4 1/16W	R1221	401 037 5400	MT-GLAZE 1K JA 1/10W
RB2271	645 026 8007	R-NETWORK 1KX4 1/16W	R1231	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2272	645 026 8007	R-NETWORK 1KX4 1/16W	R1233	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2301	645 026 8038	R-NETWORK 22KX4 1/16W	R1234	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2302	645 026 8038	R-NETWORK 22KX4 1/16W	R1235	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2303	645 026 8038	R-NETWORK 22KX4 1/16W	R1251	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2304	645 026 8038	R-NETWORK 22KX4 1/16W	R1252	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2311	645 026 8038	R-NETWORK 22KX4 1/16W	R1253	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2312	645 026 8038	R-NETWORK 22KX4 1/16W	R1254	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2313	645 026 8038	R-NETWORK 22KX4 1/16W	R1255	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2314	645 026 8038	R-NETWORK 22KX4 1/16W	R1256	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2321	645 026 8038	R-NETWORK 22KX4 1/16W	R1257	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2322	645 026 8038	R-NETWORK 22KX4 1/16W	R1258	401 038 1302	MT-GLAZE 2.4K JA 1/10W
RB2323	645 026 8038	R-NETWORK 22KX4 1/16W	R1259	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2324	645 026 8038	R-NETWORK 22KX4 1/16W	R1261	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2331	645 026 8038	R-NETWORK 22KX4 1/16W	R1262	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2332	645 026 8038	R-NETWORK 22KX4 1/16W	R1264	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2333	645 026 8038	R-NETWORK 22KX4 1/16W	R1265	401 037 5103	MT-GLAZE 10 JA 1/10W
RB2334	645 026 8038	R-NETWORK 22KX4 1/16W	R1267	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2341	645 026 8038	R-NETWORK 22KX4 1/16W	R1268	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2342	645 026 8038	R-NETWORK 22KX4 1/16W	R1269	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2343	645 026 8038	R-NETWORK 22KX4 1/16W	R1271	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2344	645 026 8038	R-NETWORK 22KX4 1/16W	R1272	401 037 6704	MT-GLAZE 1.2K JA 1/10W
RB2351	645 026 8038	R-NETWORK 22KX4 1/16W	R1273	401 037 5608	MT-GLAZE 10K JA 1/10W
RB2352	645 026 8038	R-NETWORK 22KX4 1/16W	R1274	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB2353	645 026 8038	R-NETWORK 22KX4 1/16W	R1401	401 037 5202	MT-GLAZE 100 JA 1/10W
RB2354	645 026 8038	R-NETWORK 22KX4 1/16W	R1402	401 037 5202	MT-GLAZE 100 JA 1/10W
RB3351	645 026 8038	R-NETWORK 22KX4 1/16W	R1403	401 037 5202	MT-GLAZE 100 JA 1/10W
RB3352	645 026 8038	R-NETWORK 22KX4 1/16W	R1405	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB3353	645 028 3215	R-NETWORK 100X4 1/16W	R1481	401 038 3702	MT-GLAZE 33K JA 1/10W
RB3354	645 028 3215	R-NETWORK 100X4 1/16W	R1482	401 037 5608	MT-GLAZE 10K JA 1/10W
RB3355	645 028 3215	R-NETWORK 100X4 1/16W	R1483	401 038 6406	MT-GLAZE 4.7K JA 1/10W
RB3356	645 028 3215	R-NETWORK 100X4 1/16W	R1501	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB3357	645 028 3215	R-NETWORK 100X4 1/16W	R1502	401 037 5608	MT-GLAZE 10K JA 1/10W
RB501	645 028 5998	R-NETWORK 10X4 1/16W	R1503	401 037 5608	MT-GLAZE 10K JA 1/10W
RB502	645 028 5998	R-NETWORK 10X4 1/16W	R1504	401 037 5608	MT-GLAZE 10K JA 1/10W
RB503	645 028 5998	R-NETWORK 10X4 1/16W	R1505	401 038 2200	MT-GLAZE 27K JA 1/10W
RB531	645 028 5998	R-NETWORK 10X4 1/16W	R1506	401 037 5608	MT-GLAZE 10K JA 1/10W
RB532	645 028 5998	R-NETWORK 10X4 1/16W	R1531	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
			R1532	401 037 5608	MT-GLAZE 10K JA 1/10W



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1533	401 037 5608	MT-GLAZE 10K JA 1/10W	R2218	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1534	401 037 5608	MT-GLAZE 10K JA 1/10W	R2219	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1535	401 038 2200	MT-GLAZE 27K JA 1/10W	R2220	401 037 5608	MT-GLAZE 10K JA 1/10W
R1536	401 037 5608	MT-GLAZE 10K JA 1/10W	R2221	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1561	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2225	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1562	401 037 5608	MT-GLAZE 10K JA 1/10W	R223	401 037 5400	MT-GLAZE 1K JA 1/10W
R1563	401 037 5608	MT-GLAZE 10K JA 1/10W	R2230	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1564	401 037 5608	MT-GLAZE 10K JA 1/10W	R2231	401 037 5103	MT-GLAZE 10 JA 1/10W
R1565	401 038 2200	MT-GLAZE 27K JA 1/10W	R2232	401 037 5608	MT-GLAZE 10K JA 1/10W
R1566	401 037 5608	MT-GLAZE 10K JA 1/10W	R2233	401 037 7800	MT-GLAZE 150 JA 1/10W
R1802	401 037 7909	MT-GLAZE 1.5K JA 1/10W	R2235	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1803	401 038 0800	MT-GLAZE 22K JA 1/10W	R2236	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1804	401 037 5202	MT-GLAZE 100 JA 1/10W	R2238	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1805	401 037 5202	MT-GLAZE 100 JA 1/10W	R2239	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1806	401 037 5202	MT-GLAZE 100 JA 1/10W	R224	401 037 5400	MT-GLAZE 1K JA 1/10W
R1807	401 037 5202	MT-GLAZE 100 JA 1/10W	R2240	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1809	401 037 5202	MT-GLAZE 100 JA 1/10W	R2243	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1811	401 037 7909	MT-GLAZE 1.5K JA 1/10W	R2247	401 037 5202	MT-GLAZE 100 JA 1/10W
R1814	401 037 5202	MT-GLAZE 100 JA 1/10W	R2248	401 037 5202	MT-GLAZE 100 JA 1/10W
R1815	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R225	401 037 5400	MT-GLAZE 1K JA 1/10W
R1816	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2251	401 037 5806	MT-GLAZE 1M JA 1/10W
R1817	401 037 5202	MT-GLAZE 100 JA 1/10W	R2252	401 037 5202	MT-GLAZE 100 JA 1/10W
R1818	401 037 5202	MT-GLAZE 100 JA 1/10W	R2253	401 037 5103	MT-GLAZE 10 JA 1/10W
R1819	401 038 6307	MT-GLAZE 470 JA 1/10W	R2254	401 037 5103	MT-GLAZE 10 JA 1/10W
R1821	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2255	401 037 5103	MT-GLAZE 10 JA 1/10W
R1822	401 037 5202	MT-GLAZE 100 JA 1/10W	R2257	401 037 5103	MT-GLAZE 10 JA 1/10W
R1823	401 037 5202	MT-GLAZE 100 JA 1/10W	R2258	401 037 5103	MT-GLAZE 10 JA 1/10W
R1824	401 037 5202	MT-GLAZE 100 JA 1/10W	R2259	401 037 5103	MT-GLAZE 10 JA 1/10W
R1825	401 037 5202	MT-GLAZE 100 JA 1/10W	R226	401 037 5400	MT-GLAZE 1K JA 1/10W
R1831	401 038 0800	MT-GLAZE 22K JA 1/10W	R2260TM	401 024 7004	CARBON 1K JA 1/6W
R1841	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2261	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1851	401 038 0800	MT-GLAZE 22K JA 1/10W	R2264	401 037 5707	MT-GLAZE 100K JA 1/10W
R1852	401 038 0800	MT-GLAZE 22K JA 1/10W	R2265	401 038 5300	MT-GLAZE 39K JA 1/10W
R1855	401 037 5202	MT-GLAZE 100 JA 1/10W	R2266	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1856	401 037 5202	MT-GLAZE 100 JA 1/10W	R2267	401 037 5608	MT-GLAZE 10K JA 1/10W
R1871	401 037 5202	MT-GLAZE 100 JA 1/10W	R227	401 037 5400	MT-GLAZE 1K JA 1/10W
R1872	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R2271	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1873	401 037 6803	MT-GLAZE 12K JA 1/10W	R2272	401 037 5400	MT-GLAZE 1K JA 1/10W
R1874	401 037 5608	MT-GLAZE 10K JA 1/10W	R2276	401 037 5103	MT-GLAZE 10 JA 1/10W
R1875	401 038 0800	MT-GLAZE 22K JA 1/10W	R228	401 037 5400	MT-GLAZE 1K JA 1/10W
R1881	645 030 1056	PROTECTOR, IC 3.8A 72V	R2281	401 038 6604	MT-GLAZE 470K JA 1/10W
R1882	645 030 1056	PROTECTOR, IC 3.8A 72V	R2283	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1883	645 030 1056	PROTECTOR, IC 3.8A 72V	R2284	401 037 5202	MT-GLAZE 100 JA 1/10W
R1884	645 030 1056	PROTECTOR, IC 3.8A 72V	R229	401 037 5400	MT-GLAZE 1K JA 1/10W
R200	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R230	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R201	401 037 9101	MT-GLAZE 180 JA 1/10W	R231	401 037 5400	MT-GLAZE 1K JA 1/10W
R202	401 037 9101	MT-GLAZE 180 JA 1/10W	R232	401 038 3405	MT-GLAZE 33 JA 1/10W
R203	401 037 9101	MT-GLAZE 180 JA 1/10W	R233	401 038 3405	MT-GLAZE 33 JA 1/10W
R204	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R234	401 038 3405	MT-GLAZE 33 JA 1/10W
R205	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R235	401 037 6209	MT-GLAZE 11K JA 1/10W
R206	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R236	401 038 0107	MT-GLAZE 2K JA 1/10W
R210	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R237	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R217	401 038 3405	MT-GLAZE 33 JA 1/10W	R250	401 258 4404	MT-GLAZE 5.6 JA 1/3W
R218	401 038 3405	MT-GLAZE 33 JA 1/10W	R2501	401 037 5400	MT-GLAZE 1K JA 1/10W
R219	401 038 3405	MT-GLAZE 33 JA 1/10W	R2502	401 038 7601	MT-GLAZE 560 JA 1/10W
R220	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2503	401 098 7603	MT-GLAZE 2.2 JA 1/10W
R2200	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R251	401 037 5608	MT-GLAZE 10K JA 1/10W
R2203	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2511	401 037 5400	MT-GLAZE 1K JA 1/10W
R2204	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2512	401 038 9001	MT-GLAZE 680 JA 1/10W
R2205	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2513	401 037 5400	MT-GLAZE 1K JA 1/10W
R2206	401 037 7800	MT-GLAZE 150 JA 1/10W	R2514	401 038 9001	MT-GLAZE 680 JA 1/10W
R2209	401 037 5103	MT-GLAZE 10 JA 1/10W	R2515	401 037 5400	MT-GLAZE 1K JA 1/10W
R2210	401 037 5608	MT-GLAZE 10K JA 1/10W	R2516	401 038 9001	MT-GLAZE 680 JA 1/10W
R2211	401 037 5103	MT-GLAZE 10 JA 1/10W	R2517	401 037 5400	MT-GLAZE 1K JA 1/10W
R2212	401 037 5806	MT-GLAZE 1M JA 1/10W	R2518	401 038 9001	MT-GLAZE 680 JA 1/10W
R2213	401 037 5608	MT-GLAZE 10K JA 1/10W	R2519	401 037 5400	MT-GLAZE 1K JA 1/10W
R2214	401 037 5608	MT-GLAZE 10K JA 1/10W	R2521	401 038 9001	MT-GLAZE 680 JA 1/10W
R2215	401 037 5103	MT-GLAZE 10 JA 1/10W	R2522	401 037 5400	MT-GLAZE 1K JA 1/10W
R2216	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			
R2217	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R2523	401 038 9001	MT-GLAZE 680 JA 1/10W	R368	401 037 5608	MT-GLAZE 10K JA 1/10W
R2551	401 037 6605	MT-GLAZE 120 JA 1/10W	R369	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2552	401 037 6605	MT-GLAZE 120 JA 1/10W	R435	401 037 5707	MT-GLAZE 100K JA 1/10W
R260	401 259 1501	MT-GLAZE 2.2 JA 1/3W	R436	401 037 5707	MT-GLAZE 100K JA 1/10W
R270	401 258 4404	MT-GLAZE 5.6 JA 1/3W	R437	401 037 5707	MT-GLAZE 100K JA 1/10W
R271	401 037 5608	MT-GLAZE 10K JA 1/10W	R438	401 037 5707	MT-GLAZE 100K JA 1/10W
R272	401 037 5202	MT-GLAZE 100 JA 1/10W	R439	401 037 5707	MT-GLAZE 100K JA 1/10W
R273	401 037 5202	MT-GLAZE 100 JA 1/10W	R441	401 037 5707	MT-GLAZE 100K JA 1/10W
R274	401 037 5202	MT-GLAZE 100 JA 1/10W	R442	401 037 5608	MT-GLAZE 10K JA 1/10W
R291	401 037 5608	MT-GLAZE 10K JA 1/10W	R443	401 037 5608	MT-GLAZE 10K JA 1/10W
R301	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R444	401 037 5608	MT-GLAZE 10K JA 1/10W
R302	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R445	401 037 5608	MT-GLAZE 10K JA 1/10W
R303	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R446	401 037 5608	MT-GLAZE 10K JA 1/10W
R304	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R447	401 037 5608	MT-GLAZE 10K JA 1/10W
R305	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R448	401 037 8104	MT-GLAZE 150K JA 1/10W
R306	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R449	401 038 3702	MT-GLAZE 33K JA 1/10W
R307	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R451	401 038 7809	MT-GLAZE 56K JA 1/10W
R309	401 037 5608	MT-GLAZE 10K JA 1/10W	R454	401 037 5400	MT-GLAZE 1K JA 1/10W
R311	401 037 5608	MT-GLAZE 10K JA 1/10W	R455	401 037 5400	MT-GLAZE 1K JA 1/10W
R312	401 037 5608	MT-GLAZE 10K JA 1/10W	R456	401 038 6505	MT-GLAZE 47K JA 1/10W
R313	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R457	401 038 0800	MT-GLAZE 22K JA 1/10W
R314	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R458	401 037 5400	MT-GLAZE 1K JA 1/10W
R3301	401 037 5202	MT-GLAZE 100 JA 1/10W	R459	401 037 5400	MT-GLAZE 1K JA 1/10W
R3302	401 037 5202	MT-GLAZE 100 JA 1/10W	R461	401 037 5400	MT-GLAZE 1K JA 1/10W
R3303	401 037 5202	MT-GLAZE 100 JA 1/10W	R462	401 037 5400	MT-GLAZE 1K JA 1/10W
R3304	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R481	401 038 3702	MT-GLAZE 33K JA 1/10W
R3305	401 037 5202	MT-GLAZE 100 JA 1/10W	R482	401 037 5608	MT-GLAZE 10K JA 1/10W
R3306	401 037 5202	MT-GLAZE 100 JA 1/10W	R483	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3307	401 037 5202	MT-GLAZE 100 JA 1/10W	R485	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3308	401 037 5202	MT-GLAZE 100 JA 1/10W	R486	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3309	401 037 5202	MT-GLAZE 100 JA 1/10W	R487	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R331	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R500	401 037 5608	MT-GLAZE 10K JA 1/10W
R3311	401 037 5202	MT-GLAZE 100 JA 1/10W	R501	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3312	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R502	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3314	401 037 5202	MT-GLAZE 100 JA 1/10W	R503	401 038 2200	MT-GLAZE 27K JA 1/10W
R332	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R504	401 037 6803	MT-GLAZE 12K JA 1/10W
R333	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R505	401 037 5608	MT-GLAZE 10K JA 1/10W
R334	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R506	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R335	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R507	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3350	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R531	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3351	401 038 0800	MT-GLAZE 22K JA 1/10W	R532	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3352	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R533	401 038 2200	MT-GLAZE 27K JA 1/10W
R336	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R534	401 037 6803	MT-GLAZE 12K JA 1/10W
R3360	401 037 5103	MT-GLAZE 10 JA 1/10W	R535	401 037 5608	MT-GLAZE 10K JA 1/10W
R3362	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R536	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3363	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R537	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3364	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R560	401 037 5608	MT-GLAZE 10K JA 1/10W
R3369	401 037 5103	MT-GLAZE 10 JA 1/10W	R561	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R337	401 037 5608	MT-GLAZE 10K JA 1/10W	R562	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3370	401 037 5103	MT-GLAZE 10 JA 1/10W	R563	401 038 2200	MT-GLAZE 27K JA 1/10W
R338	401 037 5608	MT-GLAZE 10K JA 1/10W	R564	401 037 6803	MT-GLAZE 12K JA 1/10W
R3383	401 037 5202	MT-GLAZE 100 JA 1/10W	R565	401 037 5608	MT-GLAZE 10K JA 1/10W
R339	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R566	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3391	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R567	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3394	401 038 6307	MT-GLAZE 470 JA 1/10W	R801	401 037 5202	MT-GLAZE 100 JA 1/10W
R341	401 037 5608	MT-GLAZE 10K JA 1/10W	R808	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R351	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R810	401 037 5202	MT-GLAZE 100 JA 1/10W
R352	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R811	401 037 5608	MT-GLAZE 10K JA 1/10W
R353	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R812	401 037 5608	MT-GLAZE 10K JA 1/10W
R354	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R813	401 038 6307	MT-GLAZE 470 JA 1/10W
R355	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R816	401 038 0800	MT-GLAZE 22K JA 1/10W
R356	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R817	401 037 5400	MT-GLAZE 1K JA 1/10W
R358	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R818	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R359	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R820	401 038 0800	MT-GLAZE 22K JA 1/10W
R361	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R822	401 037 5608	MT-GLAZE 10K JA 1/10W
R362	401 037 5608	MT-GLAZE 10K JA 1/10W	R823	401 037 5608	MT-GLAZE 10K JA 1/10W
R363	401 037 5202	MT-GLAZE 100 JA 1/10W	R826	401 037 5202	MT-GLAZE 100 JA 1/10W
R364	401 037 5202	MT-GLAZE 100 JA 1/10W	R828	401 038 0800	MT-GLAZE 22K JA 1/10W
R365	401 037 5202	MT-GLAZE 100 JA 1/10W			
R366	401 037 5608	MT-GLAZE 10K JA 1/10W			



# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R829	401 037 5202	MT-GLAZE 100 JA 1/10W	D810	407 092 9506	DIODE SB07-03C-TB
R830	401 037 5608	MT-GLAZE 10K JA 1/10W	D851	407 071 0005	ZENER DIODE DZD12X-TA
R834	401 038 0800	MT-GLAZE 22K JA 1/10W		407 071 0104	ZENER DIODE DZD12Y-TA
R835	401 037 5202	MT-GLAZE 100 JA 1/10W		407 071 0203	ZENER DIODE DZD12Z-TA
R836	401 037 5202	MT-GLAZE 100 JA 1/10W		407 199 6200	ZD 02CZ12X(Te85R)
R837	401 038 0800	MT-GLAZE 22K JA 1/10W		407 175 2806	ZD 02CZ12Y(Te85R)
R839	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 2905	ZD 02CZ12Z(Te85R)
R841	401 037 5608	MT-GLAZE 10K JA 1/10W	D852	407 071 0005	ZENER DIODE DZD12X-TA
R842	401 037 5608	MT-GLAZE 10K JA 1/10W		407 071 0104	ZENER DIODE DZD12Y-TA
R852	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 071 0203	ZENER DIODE DZD12Z-TA
R854	401 038 0800	MT-GLAZE 22K JA 1/10W		407 199 6200	ZD 02CZ12X(Te85R)
R869	401 038 2101	MT-GLAZE 2.7K JA 1/10W		407 175 2806	ZD 02CZ12Y(Te85R)
R870	401 038 6406	MT-GLAZE 4.7K JA 1/10W		407 175 2905	ZD 02CZ12Z(Te85R)
R874	401 038 6406	MT-GLAZE 4.7K JA 1/10W	D853	407 071 0005	ZENER DIODE DZD12X-TA
R875	401 037 6605	MT-GLAZE 120 JA 1/10W		407 071 0104	ZENER DIODE DZD12Y-TA
R878	401 037 5400	MT-GLAZE 1K JA 1/10W		407 071 0203	ZENER DIODE DZD12Z-TA
R881	401 037 5400	MT-GLAZE 1K JA 1/10W		407 199 6200	ZD 02CZ12X(Te85R)
R887	401 037 5608	MT-GLAZE 10K JA 1/10W		407 175 2806	ZD 02CZ12Y(Te85R)
R889	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		407 175 2905	ZD 02CZ12Z(Te85R)
R890	401 038 6406	MT-GLAZE 4.7K JA 1/10W	D854	407 071 0005	ZENER DIODE DZD12X-TA
R891	401 038 7700	MT-GLAZE 5.6K JA 1/10W		407 071 0104	ZENER DIODE DZD12Y-TA
R892	401 038 6406	MT-GLAZE 4.7K JA 1/10W		407 071 0203	ZENER DIODE DZD12Z-TA
R894	401 038 6307	MT-GLAZE 470 JA 1/10W		407 199 6200	ZD 02CZ12X(Te85R)
R895	401 037 9200	MT-GLAZE 1.8K JA 1/10W		407 175 2806	ZD 02CZ12Y(Te85R)
				407 175 2905	ZD 02CZ12Z(Te85R)
VARIABLE RESISTOR			D855	407 071 0005	ZENER DIODE DZD12X-TA
VR401	645 025 7421	VR, SEMI, 10K S		407 071 0104	ZENER DIODE DZD12Y-TA
VR402	645 025 7421	VR, SEMI, 10K S		407 071 0203	ZENER DIODE DZD12Z-TA
VR501	645 025 7421	VR, SEMI, 10K S		407 199 6200	ZD 02CZ12X(Te85R)
VR502	645 025 7421	VR, SEMI, 10K S		407 175 2806	ZD 02CZ12Y(Te85R)
VR531	645 025 7421	VR, SEMI, 10K S		407 175 2905	ZD 02CZ12Z(Te85R)
VR532	645 025 7421	VR, SEMI, 10K S			
VR561	645 025 7421	VR, SEMI, 10K S	MISCELLANEOUS		
VR562	645 025 7421	VR, SEMI, 10K S	TE1801	645 000 0409	TERMINAL
COIL			TE201	645 000 0409	TERMINAL
L1231	645 026 1008	INDUCTOR, 3.3U M	TE2201	645 000 0409	TERMINAL
L2251	645 026 1008	INDUCTOR, 3.3U M	TE241	645 000 0409	TERMINAL
L2252	645 002 5235	INDUCTOR, 5.6U M	TE2551	645 000 0409	TERMINAL
L2253	645 002 5235	INDUCTOR, 5.6U M	TE261	645 000 0409	TERMINAL
L2261	645 026 1008	INDUCTOR, 3.3U M	TE281	645 000 0409	TERMINAL
L2301	645 026 1008	INDUCTOR, 3.3U M	TE301	645 000 0409	TERMINAL
L2321	645 026 1008	INDUCTOR, 3.3U M	TE302	645 000 0409	TERMINAL
L2341	645 026 1008	INDUCTOR, 3.3U M	TE451	645 000 0409	TERMINAL
L2551	645 026 1008	INDUCTOR, 3.3U M	TE801	645 000 0409	TERMINAL
L2552	645 026 1008	INDUCTOR, 3.3U M	TE810	645 000 0409	TERMINAL
DIODE			IC3301A	610 270 1562	HEAT SINK SHEET B M6KA
D1801	407 071 0005	ZENER DIODE DZD12X-TA	IC3301B	610 274 6303	HEAT SINK-M6MA
	407 071 0104	ZENER DIODE DZD12Y-TA	TP1801	645 000 0409	TERMINAL
	407 071 0203	ZENER DIODE DZD12Z-TA	TP201	645 000 0409	TERMINAL
	407 199 6200	ZD 02CZ12X(Te85R)	TP202	645 000 0409	TERMINAL
	407 175 2806	ZD 02CZ12Y(Te85R)	TP203	645 000 0409	TERMINAL
	407 175 2905	ZD 02CZ12Z(Te85R)	TP2214	645 000 0409	TERMINAL
D1802	407 071 0005	ZENER DIODE DZD12X-TA	TP2215	645 000 0409	TERMINAL
	407 071 0104	ZENER DIODE DZD12Y-TA	TP241	645 000 0409	TERMINAL
	407 071 0203	ZENER DIODE DZD12Z-TA	TP2501	645 000 0409	TERMINAL
	407 199 6200	ZD 02CZ12X(Te85R)	TP2502	645 000 0409	TERMINAL
	407 175 2806	ZD 02CZ12Y(Te85R)	TP2503	645 000 0409	TERMINAL
	407 175 2905	ZD 02CZ12Z(Te85R)	TP2504	645 000 0409	TERMINAL
D1803	407 071 0005	ZENER DIODE DZD12X-TA	TP261	645 000 0409	TERMINAL
	407 071 0104	ZENER DIODE DZD12Y-TA	TP281	645 000 0409	TERMINAL
	407 071 0203	ZENER DIODE DZD12Z-TA	TP3301	645 000 0409	TERMINAL
	407 199 6200	ZD 02CZ12X(Te85R)	TP3302	645 000 0409	TERMINAL
	407 175 2806	ZD 02CZ12Y(Te85R)	TP401	645 000 0409	TERMINAL
	407 175 2905	ZD 02CZ12Z(Te85R)	TP402	645 000 0409	TERMINAL
D1871	407 004 8009	DIODE DSB015-TB	TP403	645 000 0409	TERMINAL
D2201TM	407 012 4406	DIODE 1SS133	TP501	645 000 0409	TERMINAL
D2552	407 004 8009	DIODE DSB015-TB	TP531	645 000 0409	TERMINAL
D3351	407 004 8009	DIODE DSB015-TB	TP561	645 000 0409	TERMINAL
			TP810	645 000 0409	TERMINAL

## 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
TP811	645 000 0409	TERMINAL	C1309TM	403 069 8305	CERAMIC 0.01U Z 50V
TP812	645 000 0409	TERMINAL	C1310	403 069 9500	CERAMIC 0.01U Z 50V
TP813	645 000 0409	TERMINAL	C1311TM	403 032 7403	CERAMIC 8P D 50V
TP814	645 000 0409	TERMINAL	C1312TM	403 032 7403	CERAMIC 8P D 50V
K1301	645 029 7953	PLUG, PWB-PWB 50P	C1313TM	403 032 7403	CERAMIC 8P D 50V
K18A	645 029 8202	PLUG, 20P	C2291	403 070 2606	CERAMIC 0.1U Z 50V
K2202	645 029 8004	SOCKET, PWB-PWB 60P	C2292	403 280 0607	ELECT 220U M 6.3V
K2212	645 029 8004	SOCKET, PWB-PWB 60P		403 322 7809	ELECT 220U M 6.3V
K25B	645 027 9690	SOCKET, FPC 32P	C2293	403 070 2606	CERAMIC 0.1U Z 50V
K25G	645 027 9690	SOCKET, FPC 32P	C4201	403 069 9500	CERAMIC 0.01U Z 50V
K25R	645 027 9690	SOCKET, FPC 32P	C4210	403 069 9500	CERAMIC 0.01U Z 50V
K5402	645 029 7960	PLUG, PWB-PWB 80P	C4213	403 280 0607	ELECT 220U M 6.3V
K8A	645 030 6679	PLUG, 32P		403 322 7809	ELECT 220U M 6.3V
K8B	645 030 6679	PLUG, 32P	C4231	403 069 9500	CERAMIC 0.01U Z 50V
K8C	645 029 6314	PULG, 3P	C4240	403 069 9500	CERAMIC 0.01U Z 50V
K8D	645 020 7211	PLUG, 7P	C4243	403 280 0607	ELECT 220U M 6.3V
K8E	645 029 6314	PULG, 3P		403 322 7809	ELECT 220U M 6.3V
K8F	645 005 8387	PLUG, 6P	C4261	403 069 9500	CERAMIC 0.01U Z 50V
K8G	645 010 0772	PLUG, 8P	C4270	403 069 9500	CERAMIC 0.01U Z 50V
K8L	645 029 6338	PULG, 5P	C4273	403 280 0607	ELECT 220U M 6.3V
WK9AP	610 014 6549	SOCKET, 2P		403 322 7809	ELECT 220U M 6.3V
WK9AP1	610 013 9671	TERMINAL	C5201	403 069 9500	CERAMIC 0.01U Z 50V
WK9AP2	610 013 9671	TERMINAL	C5210	403 069 9500	CERAMIC 0.01U Z 50V
X1801	645 024 8566	OSC, CERAMIC 6.00MHZ	C5213	403 280 0607	ELECT 220U M 6.3V
X1811	645 024 8566	OSC, CERAMIC 6.00MHZ		403 322 7809	ELECT 220U M 6.3V
X2251	645 024 7712	OSC, CRISTAL, 60MHZ	C5231	403 069 9500	CERAMIC 0.01U Z 50V
X801	645 029 5966	OSC, CRYSTAL 8.000MHZ	C5240	403 069 9500	CERAMIC 0.01U Z 50V
			C5243	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5261	403 069 9500	CERAMIC 0.01U Z 50V
			C5270	403 069 9500	CERAMIC 0.01U Z 50V
			C5273	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5401	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5402	403 070 2606	CERAMIC 0.1U Z 50V
			C5404	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5406	403 070 2606	CERAMIC 0.1U Z 50V
			C5421	403 070 2606	CERAMIC 0.1U Z 50V
			C5431	403 070 2606	CERAMIC 0.1U Z 50V
			C5441	403 070 2606	CERAMIC 0.1U Z 50V
			C5451	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5452	403 070 2606	CERAMIC 0.1U Z 50V
			C5453	403 069 1702	CERAMIC 1000P K 50V
			C5454	403 069 1702	CERAMIC 1000P K 50V
			C5455	403 070 2606	CERAMIC 0.1U Z 50V
			C5456	403 070 2606	CERAMIC 0.1U Z 50V
			C5457	403 070 2606	CERAMIC 0.1U Z 50V
			C5458	403 070 2606	CERAMIC 0.1U Z 50V
			C5459	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5461	403 070 2606	CERAMIC 0.1U Z 50V
			RESISTOR		
			RB2211	645 026 8038	R-NETWORK 22KX4 1/16W
			RB2212	645 026 8038	R-NETWORK 22KX4 1/16W
			RB2213	645 026 8038	R-NETWORK 22KX4 1/16W
			RB2214	645 026 8038	R-NETWORK 22KX4 1/16W
			RB5401	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5402	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5403	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5404	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5405	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5406	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5407	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5408	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5409	645 026 8014	R-NETWORK 10KX4 1/16W
			RB5411	645 026 8014	R-NETWORK 10KX4 1/16W
610 273 5994 ASSY, PWB, MAIN SUB1 P6MA 1AA0B10C1750B					
TRANSISTOR					
Q1301	405 014 4509	TR 2SC2412K T146 R			
Q1302	405 014 4509	TR 2SC2412K T146 R			
Q1303	405 014 4509	TR 2SC2412K T146 R			
INTEGRATED CIRCUIT					
IC1301	410 308 6404	IC MB40988PFO-G-MSBND			
IC2207	410 291 5101	IC HM514260CTT-7			
	410 298 0307	IC MSM514265C-60TS-K			
IC4208	410 274 9003	IC MSM518222-30GS			
IC4209	410 274 9003	IC MSM518222-30GS			
IC4238	410 274 9003	IC MSM518222-30GS			
IC4239	410 274 9003	IC MSM518222-30GS			
IC4259	410 274 9003	IC MSM518222-30GS			
IC4268	410 274 9003	IC MSM518222-30GS			
IC5208	410 274 9003	IC MSM518222-30GS			
IC5209	410 274 9003	IC MSM518222-30GS			
IC5238	410 274 9003	IC MSM518222-30GS			
IC5239	410 274 9003	IC MSM518222-30GS			
IC5268	410 274 9003	IC MSM518222-30GS			
IC5269	410 274 9003	IC MSM518222-30GS			
IC5401	409 407 5401	IC LC21041B-LJ3			
IC5402	409 419 1507	IC LC22112B-MJ0			
IC5411	409 422 5509	IC MC74AC244DT			
	409 418 2208	IC TC74AC244FT(EL)			
IC5412	409 422 5509	IC MC74AC244DT			
	409 418 2208	IC TC74AC244FT(EL)			
IC5413	409 422 5509	IC MC74AC244DT			
	409 418 2208	IC TC74AC244FT(EL)			
CAPACITOR					
C1301	403 070 2606	CERAMIC 0.1U Z 50V			
C1302	403 280 0607	ELECT 220U M 6.3V			
	403 322 7809	ELECT 220U M 6.3V			
C1303	403 070 2606	CERAMIC 0.1U Z 50V			
C1304	403 070 2606	CERAMIC 0.1U Z 50V			
C1305	403 208 1402	TA-SOLID 1U M 25V			
C1306	403 070 2606	CERAMIC 0.1U Z 50V			
C1308TM	403 069 8305	CERAMIC 0.01U Z 50V			

## 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
RB5412	645 026 8014	R-NETWORK 10KX4 1/16W	R5459	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB5413	645 026 8014	R-NETWORK 10KX4 1/16W	COIL		
R1301	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L1301	645 026 1008	INDUCTOR, 3.3U M
R1311	401 038 5003	MT-GLAZE 390 JA 1/10W	L5451	645 026 1008	INDUCTOR, 3.3U M
R1312	401 038 5003	MT-GLAZE 390 JA 1/10W	MISCELLANEOUS		
R1313	401 038 5003	MT-GLAZE 390 JA 1/10W	K1302	645 029 7984	SOCKET, PWB-PWB 50P
R4279	401 037 5103	MT-GLAZE 10 JA 1/10W	K5401	645 029 7991	SOCKET, PWB-PWB 80P
R4281	401 037 5103	MT-GLAZE 10 JA 1/10W			
R4283	401 037 5103	MT-GLAZE 10 JA 1/10W		610 273 6007	ASSY, PWB, MAIN SUB2 P6MA
R4285	401 037 5103	MT-GLAZE 10 JA 1/10W		1AA0B10C1750C	
R4287	401 037 5103	MT-GLAZE 10 JA 1/10W	MISCELLANEOUS		
R4289	401 037 5103	MT-GLAZE 10 JA 1/10W	K2201	645 029 7977	PLUG, PWB-PWB 60P
R4291	401 037 5103	MT-GLAZE 10 JA 1/10W	K2211	645 029 7977	PLUG, PWB-PWB 60P
R4293	401 037 5103	MT-GLAZE 10 JA 1/10W			
R4295	401 037 5103	MT-GLAZE 10 JA 1/10W		610 274 2435	ASSY, PWB, LINE FLITER P6MA
R4297	401 037 5103	MT-GLAZE 10 JA 1/10W		1AA0B10C1840B	
R4299	401 037 5103	MT-GLAZE 10 JA 1/10W	CAPACITOR		
R4302	401 037 5103	MT-GLAZE 10 JA 1/10W	△C601	404 071 2503	MT-POLYEST 0.47U K 250V
R4304	401 037 5103	MT-GLAZE 10 JA 1/10W	△C603	404 071 2503	MT-POLYEST 0.47U K 250V
R4305	401 037 5103	MT-GLAZE 10 JA 1/10W	△C604	404 060 6505	CERAMIC 2200P M 400V
R4306	401 037 5103	MT-GLAZE 10 JA 1/10W	△C605	404 060 6505	CERAMIC 2200P M 400V
R4307	401 037 5103	MT-GLAZE 10 JA 1/10W	△C606	404 060 6505	CERAMIC 2200P M 400V
R4308	401 037 5103	MT-GLAZE 10 JA 1/10W	△C607	404 060 6505	CERAMIC 2200P M 400V
R4309	401 037 5103	MT-GLAZE 10 JA 1/10W	RESISTOR		
R5279	401 037 5103	MT-GLAZE 10 JA 1/10W	△R601	401 008 8607	CARBON 220K JA 1/2W
R5281	401 037 5103	MT-GLAZE 10 JA 1/10W	VARISTOR		
R5283	401 037 5103	MT-GLAZE 10 JA 1/10W	△VA601	407 130 2902	VARISTOR ENC471D-14A
R5285	401 037 5103	MT-GLAZE 10 JA 1/10W	COIL		
R5287	401 037 5103	MT-GLAZE 10 JA 1/10W	△L601	645 028 5929	LINE FILTER
R5289	401 037 5103	MT-GLAZE 10 JA 1/10W	△L602	645 028 5929	LINE FILTER
R5291	401 037 5103	MT-GLAZE 10 JA 1/10W	△L603	645 028 5929	LINE FILTER
R5293	401 037 5103	MT-GLAZE 10 JA 1/10W			
R5295	401 037 5103	MT-GLAZE 10 JA 1/10W		610 274 2442	ASSY, PWB, SUB POWER P6MA
R5297	401 037 5103	MT-GLAZE 10 JA 1/10W		1AA0B10C1840C	
R5299	401 037 5103	MT-GLAZE 10 JA 1/10W	CAUTION		
R5302	401 037 5103	MT-GLAZE 10 JA 1/10W		AFTER REPLACING THE PARTS IN THE +12V DC CIRCUIT,	
R5304	401 037 5103	MT-GLAZE 10 JA 1/10W		READJUST THE +12V DC VOLTAGE.	
R5305	401 037 5103	MT-GLAZE 10 JA 1/10W		(REFER TO ELECTRICAL ADJUSTMENTS)	
R5306	401 037 5103	MT-GLAZE 10 JA 1/10W	TRANSISTOR		
R5307	401 037 5103	MT-GLAZE 10 JA 1/10W	Q681	405 014 4509	TR 2SC2412K T146 R
R5308	401 037 5103	MT-GLAZE 10 JA 1/10W	Q682	405 014 4509	TR 2SC2412K T146 R
R5309	401 037 5103	MT-GLAZE 10 JA 1/10W	Q683	405 014 4509	TR 2SC2412K T146 R
R5401	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	INTEGRATED CIRCUIT		
R5402	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	IC681	410 312 9309	IC SI-8090S LF1113
R5403	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		409 421 4602	IC SI-8090S
R5404	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	CAPACITOR		
R5406	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C681	403 126 4509	ELECT 100U M 16V
R5407	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C682	403 126 4509	ELECT 100U M 16V
R5408	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C683	403 126 4509	ELECT 100U M 16V
R5409	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C684	403 148 0107	ELECT 1000U M 16V
R5410	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		403 301 2405	ELECT 1000U M 16V
R5421	401 037 6605	MT-GLAZE 120 JA 1/10W	C687	403 148 0107	ELECT 1000U M 16V
R5422	401 037 6605	MT-GLAZE 120 JA 1/10W		403 301 2405	ELECT 1000U M 16V
R5431	401 037 6605	MT-GLAZE 120 JA 1/10W	C688	403 070 2606	CERAMIC 0.1U Z 50V
R5432	401 037 6605	MT-GLAZE 120 JA 1/10W	C689	403 148 0701	ELECT 2200U M 25V
R5441	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		403 313 6002	ELECT 2200U M 25V
R5442	401 037 6605	MT-GLAZE 120 JA 1/10W	C691	403 070 2606	CERAMIC 0.1U Z 50V
R5443	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C692	403 147 9606	ELECT 1000U M 10V
R5444	401 037 6605	MT-GLAZE 120 JA 1/10W	C693	403 070 2606	CERAMIC 0.1U Z 50V
R5445	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C694	403 070 2606	CERAMIC 0.1U Z 50V
R5446	401 037 6605	MT-GLAZE 120 JA 1/10W	C696	403 119 8002	ELECT 470U M 25V
R5448	401 037 6605	MT-GLAZE 120 JA 1/10W			
R5451	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			
R5452	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			
R5453	401 037 5608	MT-GLAZE 10K JA 1/10W			
R5454	401 037 5608	MT-GLAZE 10K JA 1/10W			
R5455	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			
R5456	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			
R5457	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			
R5458	401 037 5004	MT-GLAZE 0.000 ZA 1/10W			

# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
<b>RESISTOR</b>					
R681	401 037 5608	MT-GLAZE 10K JA 1/10W	IC661	410 310 6706	IC SI-3120FA LF1113
R682	401 259 1501	MT-GLAZE 2.2 JA 1/3W	IC662	409 308 8600	IC SE005N
R682A	401 259 1501	MT-GLAZE 2.2 JA 1/3W	IC71	409 406 7000	IC FA5331M
R683	401 037 5608	MT-GLAZE 10K JA 1/10W	△PC601	408 014 9703	PC CNY17F-30PT1+6
R684	401 259 1501	MT-GLAZE 2.2 JA 1/3W		408 016 8803	PC PC113 (VDE0884)
R686	401 037 5608	MT-GLAZE 10K JA 1/10W	△PC602	408 014 9703	PC CNY17F-30PT1+6
R687	401 259 1501	MT-GLAZE 2.2 JA 1/3W		408 016 8803	PC PC113 (VDE0884)
R689	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	△PC603	408 014 9703	PC CNY17F-30PT1+6
R691	401 037 5400	MT-GLAZE 1K JA 1/10W		408 016 8803	PC PC113 (VDE0884)
R692	401 037 5400	MT-GLAZE 1K JA 1/10W	<b>△CAPACITOR</b>		
R693	401 037 5608	MT-GLAZE 10K JA 1/10W	C608	404 071 2107	MT-POLYEST 0.1U K 250V
R694	401 037 5400	MT-GLAZE 1K JA 1/10W	C609	403 165 6007	CERAMIC 1000P K 1K
R695	401 037 5400	MT-GLAZE 1K JA 1/10W		403 222 1303	CERAMIC 1000P K 1K
R696	401 066 9004	OXIDE-MT 27 JA 2W	C611	403 165 6007	CERAMIC 1000P K 1K
<b>VARIABLE RESISTOR</b>				403 222 1303	CERAMIC 1000P K 1K
VR681	645 002 3538	VR, SEMI, 4.7K S	C612	403 147 9606	ELECT 1000U M 10V
<b>COIL</b>			C613	403 147 9606	ELECT 1000U M 10V
L681	645 007 7968	INDUCTOR, 10U M	C614	403 275 6003	MT-POLYEST 1.5U J 400V
L682	645 028 0627	INDUCTOR, 300U	C616	403 275 6003	MT-POLYEST 1.5U J 400V
<b>DIODE</b>			C617	403 148 1807	ELECT 220U M 35V
D681	407 004 0706	DIODE DCB015-TB	C618	404 061 3602	ELECT 470U M 400V
D682	407 004 0706	DIODE DCB015-TB	C619	404 061 3602	ELECT 470U M 400V
D683	407 207 3801	DIODE RK46 LF-J2	C621	403 323 8706	MT-POLYEST 0.047U K 450V
	407 148 4806	DIODE RK46 LF-J3	△C631	404 071 2107	MT-POLYEST 0.1U K 250V
D684	407 004 0706	DIODE DCB015-TB	C632	403 165 6007	CERAMIC 1000P K 1K
D691	407 042 7309	LED TLR144		403 222 1303	CERAMIC 1000P K 1K
D691A	645 015 9510	SPACER	C633	403 165 6007	CERAMIC 1000P K 1K
<b>MISCELLANEOUS</b>				403 222 1303	CERAMIC 1000P K 1K
IC681B	411 047 0104	SCR PAN+SW+W 3X8	C634	403 269 7801	ELECT 4.7U M 400V
IC681H	645 028 4984	HEAT SINK	C636	403 130 3109	CERAMIC 0.047U K 50V
K6G	645 005 9315	PLUG, 2P	C637	403 323 8706	MT-POLYEST 0.047U K 450V
K6H	645 005 9315	PLUG, 2P	C638	403 156 8805	ELECT 1U M 50V
K6I	645 004 2898	PLUG, 3P	C639	404 077 6208	ELECT 330U M 250V
K6J	645 004 2959	PLUG, 9P	C641	404 077 6208	ELECT 330U M 250V
K6K	645 004 2928	PLUG, 6P	C643	403 156 9000	ELECT 2.2U M 50V
K6L	645 004 2898	PLUG, 3P	C644	403 237 7901	MT-COMPO 0.22U J 50V
K6M	645 004 2898	PLUG, 3P	C646	403 069 1702	CERAMIC 1000P K 50V
K6N	645 004 2898	PLUG, 3P	C647	403 165 8803	CERAMIC 330P K 2K
K6P	645 004 2898	PLUG, 3P	C648	403 070 2606	CERAMIC 0.1U Z 50V
<b>610 274 5504 ASSY POWER</b>			C649	403 167 8603	CERAMIC 220P K 2K
<b>1AASB10C18400</b>			C651	403 074 9502	CERAMIC 680P K 50V
<b>CAUTION</b>			C652	403 156 8805	ELECT 1U M 50V
★ AFTER REPLACING THE PARTS IN THE P.F.C. CIRCUIT, READJUST THE P.F.C. OUTPUT VOLTAGE.			C653	403 148 1807	ELECT 220U M 35V
★ AFTER REPLACING THE PARTS IN THE +6V DC CIRCUIT, READJUST THE +6V DC VOLTAGE.			C654	403 070 2606	CERAMIC 0.1U Z 50V
★ AFTER REPLACING THE PARTS IN THE +15V DC CIRCUIT, READJUST THE +15V DC VOLTAGE.			C656	403 333 3500	POLYPRO 0.022U J 630V
(REFER TO ELECTRICAL ADJUSTMENTS)			C657	403 070 2606	CERAMIC 0.1U Z 50V
<b>TRANSISTOR</b>			C661	403 148 0701	ELECT 2200U M 25V
Q601	405 135 5409	TR 2SK1544		403 313 6002	ELECT 2200U M 25V
Q602	405 135 5409	TR 2SK1544	C662	403 148 0701	ELECT 2200U M 25V
Q661	405 014 4509	TR 2SC2412K T146 R		403 313 6002	ELECT 2200U M 25V
Q662	405 014 4509	TR 2SC2412K T146 R	C663	403 119 7609	ELECT 2200U M 10V
Q71	405 014 4509	TR 2SC2412K T146 R		403 313 5906	ELECT 2200U M 10V
Q72	405 002 0308	TR 2SA1037K T146 R	C664	403 119 7609	ELECT 2200U M 10V
<b>INTEGRATED CIRCUIT</b>				403 313 5906	ELECT 2200U M 10V
IC631	409 421 4800	IC STR83145	C666	403 070 2606	CERAMIC 0.1U Z 50V
IC632	409 426 6809	IC STR-Z2154C	C667	403 070 2606	CERAMIC 0.1U Z 50V
			C668	403 148 0404	ELECT 1000U M 25V
				403 301 7103	ELECT 1000U M 25V
			C669	403 155 5607	ELECT 220U M 10V
			C671	403 156 9208	ELECT 4.7U M 50V
			C672	403 148 0305	ELECT 470U M 16V
			C71	403 074 9502	CERAMIC 680P K 50V
			C72	403 075 2304	CERAMIC 0.068U Z 50V
			C73	403 070 2606	CERAMIC 0.1U Z 50V
			C74	403 030 7009	CERAMIC 68P J 50V
			C75	403 069 5601	CERAMIC 0.01U K 50V
			C76	403 073 7301	CERAMIC 470P K 50V

# **[ Electrical Parts List ]**

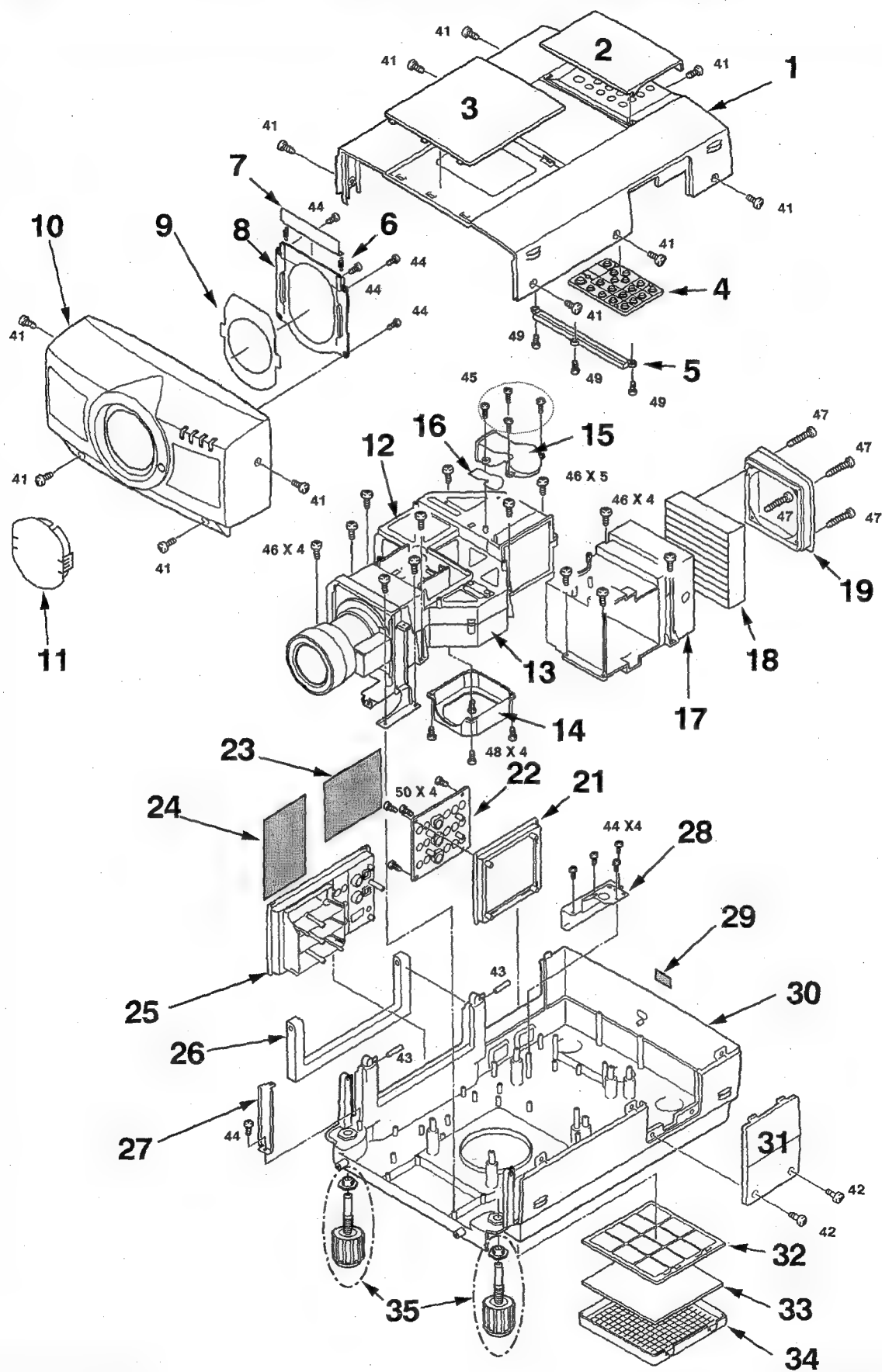
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
0602H	645 028 4960	HEAT SINK	ACCESSORIES		
KT601	645 004 2898	PLUG, 3P	645 024 6326	CABLE, INTERFACE MAC A	
K6D	645 005 9315	PLUG, 2P	or 645 026 6829	CABLE, INTERFACE SVGA MAC	
K6E	645 008 4478	PLUG, 9P	645 024 6333	CABLE, INTERFACE PS/2	
K1	610 225 9421	TERMINAL 10P	or 645 026 6836	CABLE, INTERFACE SVGA PS/2	
TSW601	645 017 3691	SWITCH, THERMAL	645 025 6349	CABLE, INTERFACE XGA SRAL	
TSW601B	411 047 0104	SCR PAN+SW+W 3X8	or 645 026 6843	CABLE, INTERFACE SVGA SRAL	
TSW601H	645 028 4960	HEAT SINK	645 015 3976	CABLE, FXAF	
610 272 5889 ASSY, PWB, LAMPBALLAST			or 610 234 0969	CABLE	
1AASB10C15300			AA9901	645 028 5950	ASSY, REMOCON CXDA
CAUTION			A9901C	610 273 8667	RC-BATTERY LID-CXDA
IF THERE IS A PROBLEM IN THE ASSY LAMP BALLAST			AA9901	645 029 2194	ASSY, REMOCON CXEA
ONLY USE THESE REPLACEMENT PARTS FOR BEST PERFORMANCE			A9901C	610 272 9221	RC-BATTERY LID-CXEA
AND SAFETY.			645 031 5671	DISK USB DRIVER FLOPPY	
TRANSISTOR			645 021 6831	ADAPTOR, MAC/IBM	
△Q701	405 146 6402	TR 2SK2837	610 272 3045	COVER, DUST-M6MA	
△Q702	405 146 6402	TR 2SK2837	645 027 7221	CABLE, INTERFACE VGA	
△Q703	405 135 1203	TR 2SD1314	PLC-9000/9000E ONLY		
△Q704	405 135 1203	TR 2SD1314	610 272 3106	OWNER'S MANUAL-P6MA	P6MZ P6MA
△Q705	405 135 1203	TR 2SD1314	610 272 3113	OWNER'S MANUAL-P6MA-D	
△Q706	405 135 1203	TR 2SD1314	610 272 3120	OWNER'S MANUAL-P6MA-F	
△Q731	406 011 2901	2SC4304 LF639	610 272 3137	OWNER'S MANUAL-P6MA-I	
DIODE			610 272 3144	OWNER'S MANUAL-P6MA-E	
△D701	407 174 0308	DIODE FML-36S	△ 645 002 9196	AC CORD, POWER-3. 0MK	
△D708	407 007 7702	DIODE EU2A	PLC-9005E ONLY		
△D709	407 007 7702	DIODE EU2A	610 273 2573	OWNER'S MANUAL-P6MAV	P6MAV
△D711	407 007 7702	DIODE EU2A	610 273 2580	OWNER'S MANUAL-P6MAV-D	
△D712	407 007 7702	DIODE EU2A	610 273 2597	OWNER'S MANUAL-P6MAV-F	
△D731	407 146 8103	DIODE EG01C	610 273 2603	OWNER'S MANUAL-P6MAV-I	
△D733	407 007 6606	DIODE ES1	610 273 2610	OWNER'S MANUAL-P6MAV-E	
△D734	407 007 6606	DIODE ES1	△ 645 002 9196	AC CORD, POWER-3. 0MK	
△D736	407 007 6606	DIODE ES1	PLC-9005B ONLY		
△D737	407 007 6606	DIODE ES1	610 273 2634	OWNER'S MANUAL-P6MCV	P6MCV
△D738	407 007 6606	DIODE ES1	△ 645 003 1137	AC CORD, POWER-3. 0MK	
△SW701	645 017 3691	SWITCH, THERMAL	△ or 645 003 5098	AC CORD, POWER-3. 0MK	
△SW702	645 026 9257	SWITCH, THERMAL			



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q602H	645 028 4960	HEAT SINK	ACCESSORIES		
KT601	645 004 2898	PLUG, 3P	645 026 6829	CABLE, INTERFACE SVGA MAC	
K6D	645 005 9315	PLUG, 2P	or 645 024 6326	CABLE, INTERFACE MAC A	
K6E	645 008 4478	PLUG, 9P	645 026 6836	CABLE, INTERFACE SVGA PS/2	
K1	610 225 9421	TERMINAL 10P	or 645 024 6333	CABLE, INTERFACE PS/2	
TSW601	645 017 3691	SWITCH, THERMAL	645 026 6843	CABLE, INTERFACE SVGA SRAL	
TSW601B	411 047 0104	SCR PAN+SW+W 3X8	or 645 025 6349	CABLE, INTERFACE XGA SRAL	
TSW601H	645 028 4960	HEAT SINK	645 015 3976	CABLE, FXAF	
			or 610 234 0969	CABLE	
610 272 5889 ASSY, PWB, LAMPBALLAST			AA9901	645 028 5950	ASSY, REMOCON CXDA
1AASB10C15300			A9901C	610 273 8667	RC-BATTERY LID-CXDA
CAUTION			AA9901	645 029 2194	ASSY, REMOCON CXEA
IF THERE IS A PROBLEM IN THE ASSY LAMP BALLAST			A9901C	610 272 9221	RC-BATTERY LID-CXEA
ONLY USE THESE REPLACEMENT PARTS FOR BEST PERFORMANCE					
AND SAFETY.					
TRANSISTOR					
△Q701	405 146 6402	TR 2SK2837	610 272 3052	OWNER'S MANUAL-M6MA	
△Q702	405 146 6402	TR 2SK2837	645 031 5671	DISK USB DRIVER FLOPPY	
△Q703	405 135 1203	TR 2SD1314	645 021 6831	ADAPTOR, MAC/IBM	
△Q704	405 135 1203	TR 2SD1314	610 272 3045	COVER, DUST-M6MA	
△Q705	405 135 1203	TR 2SD1314	△ 645 002 9189	AC CORD, POWER-3. 0MK	
△Q706	405 135 1203	TR 2SD1314	645 027 7221	CABLE, INTERFACE VGA	
△Q731	406 011 2901	2SC4304 LF639			
DIODE					
△D701	407 174 0308	DIODE FML-36S			
△D708	407 007 7702	DIODE EU2A			
△D709	407 007 7702	DIODE EU2A			
△D711	407 007 7702	DIODE EU2A			
△D712	407 007 7702	DIODE EU2A			
△D731	407 146 8103	DIODE EG01C			
△D733	407 007 6606	DIODE ES1			
△D734	407 007 6606	DIODE ES1			
△D736	407 007 6606	DIODE ES1			
△D737	407 007 6606	DIODE ES1			
△D738	407 007 6606	DIODE ES1			
△SW701	645 017 3691	SWITCH, THERMAL			
△SW702	645 026 9257	SWITCH, THERMAL			

# CABINET PARTS LIST

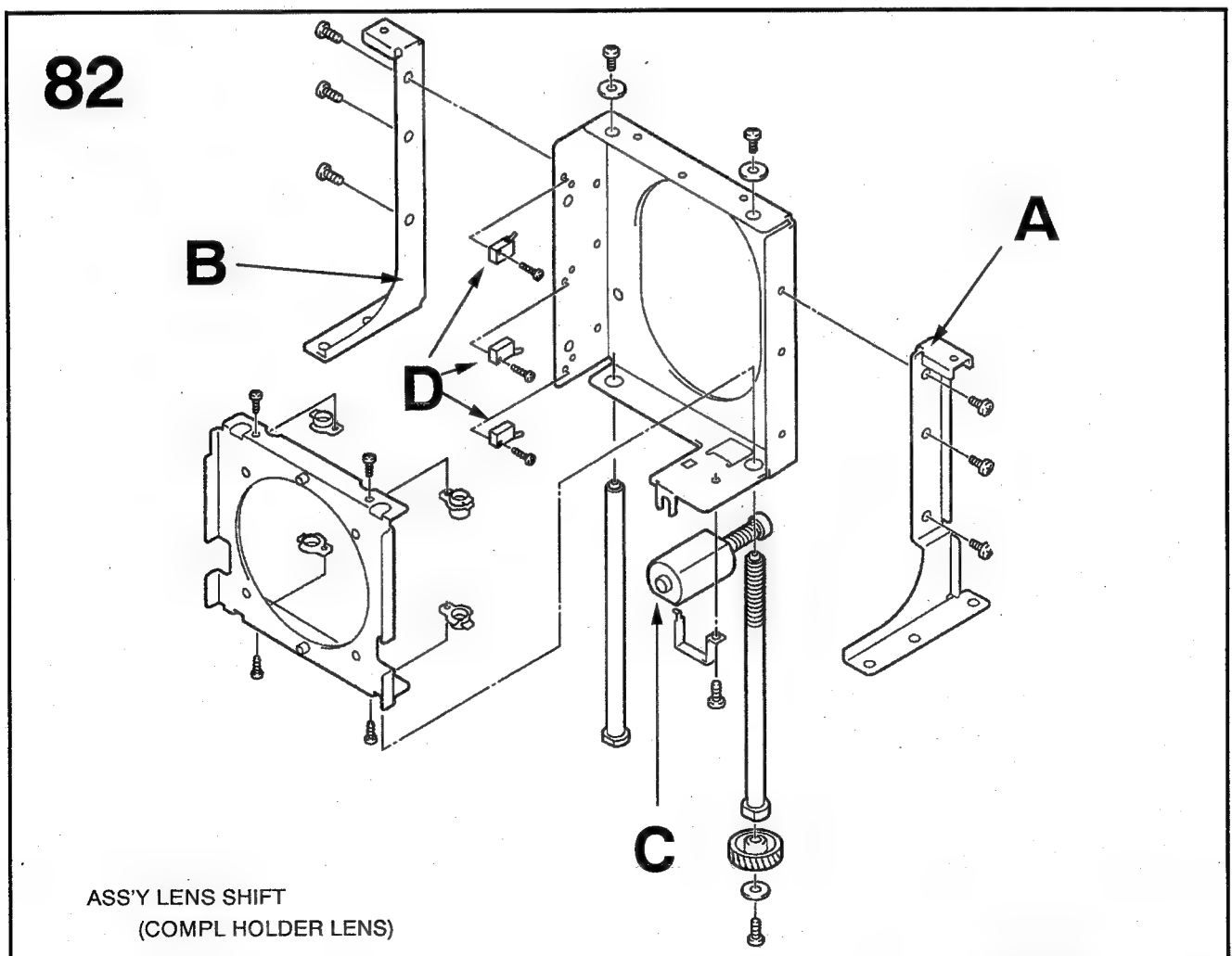
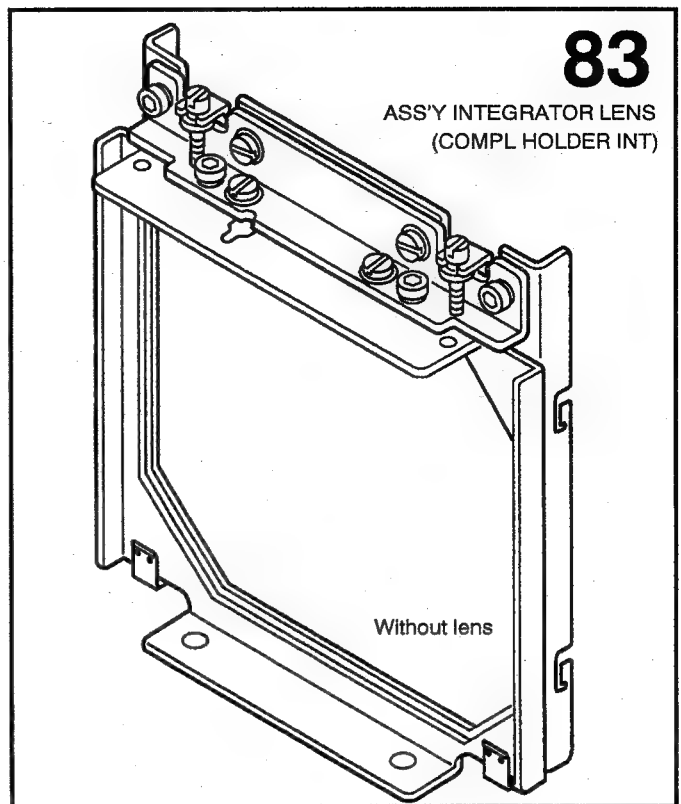
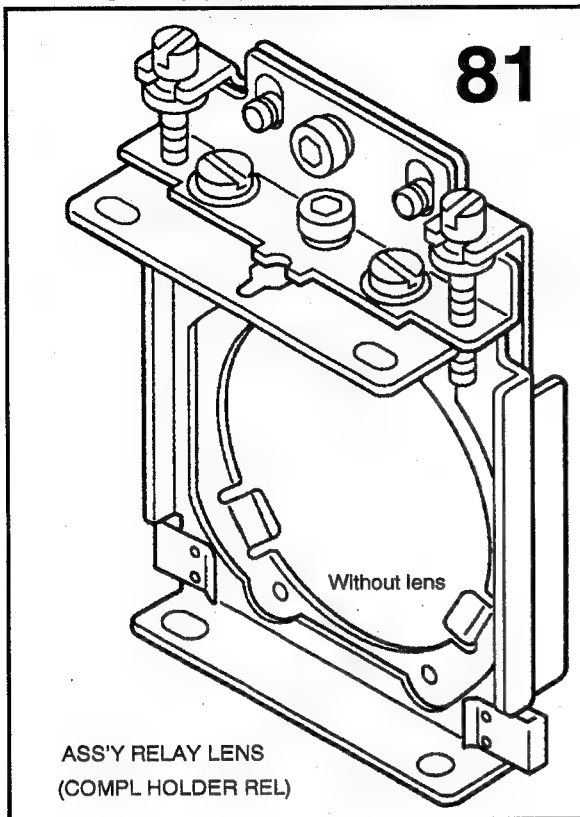




## CABINET PARTS LIST

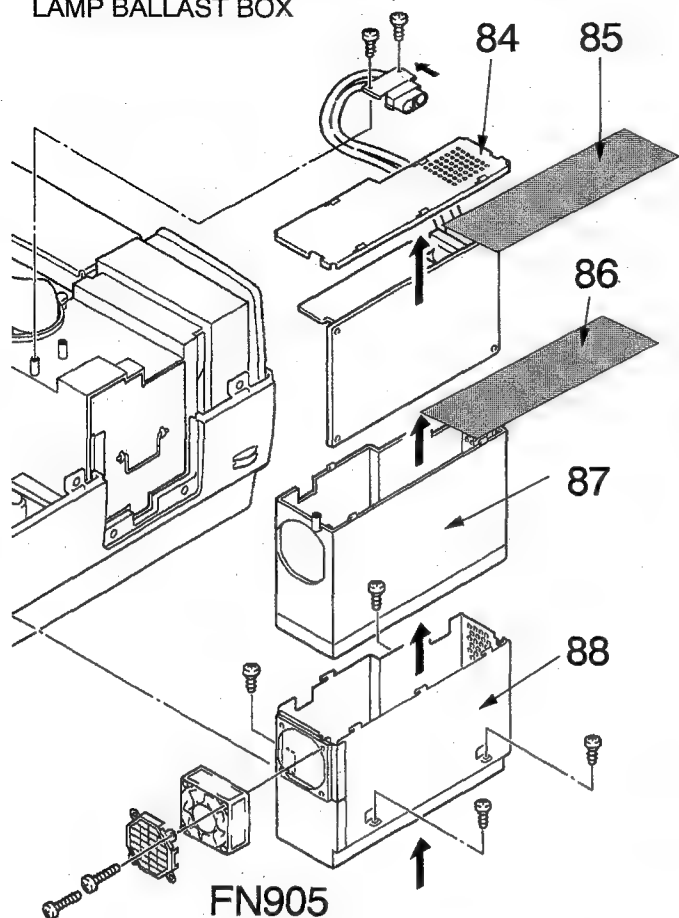
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# CHASSIS PARTS LIST

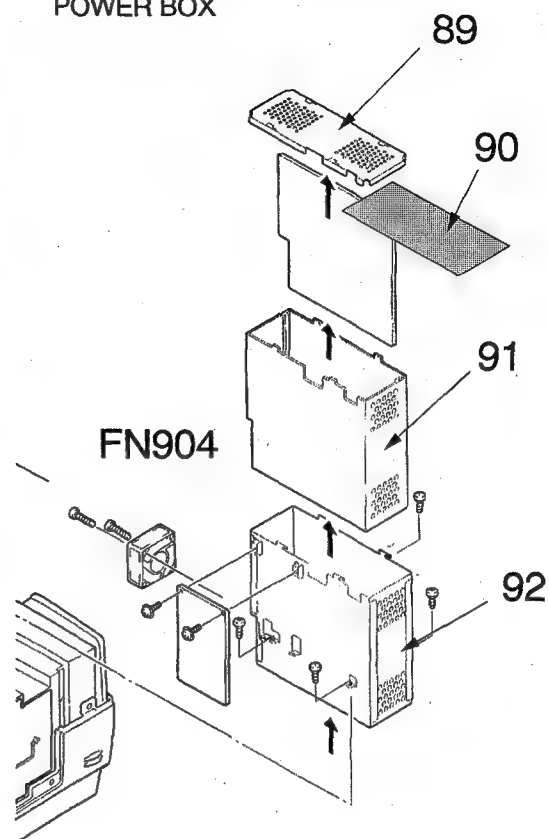


## CHASSIS PARTS LIST

### LAMP BALLAST BOX



### POWER BOX



### CHASSIS PARTS LIST

Key NO.	PART NO.	DESCRIPTION
81.	610 270 3245	COMPL. HOLDER REL C-MGMA
82.	610 270 4365	COMPL. HOLDER LENS-MGMA
82-A	610 270 5836	MOUNTING CHS B-MGMA
82-B	610 270 5843	MOUNTING CHS C-MGMA
82-C	645 011 9026	ASSY. MOTOR (MGDA)
82-D	645 012 2422	SWITCH, LEVER
83.	610 270 5386	COMPL. HOLDER INT A-MGMA
84.	610 272 1249	SHIELD BOX LAMP-B-MGMA
85.	610 273 7950	SPACER LAMP PWB A-MGMA
86.	610 273 7967	SPACER LAMP PWB B-MGMA
87.	610 272 1164	HOLDER LAMP PWB-MGMA
88.	610 272 1232	SHIELD BOX LAMP-A-MGMA
89.	610 272 1263	SHIELD BOX POW-B-MGMA
90.	610 273 7943	SPACER POWER PWB A-MGMA
91.	610 272 1171	HOLDER POWER PWB-MGMA
92.	610 272 1256	SHIELD BOX POW-A-MGMA

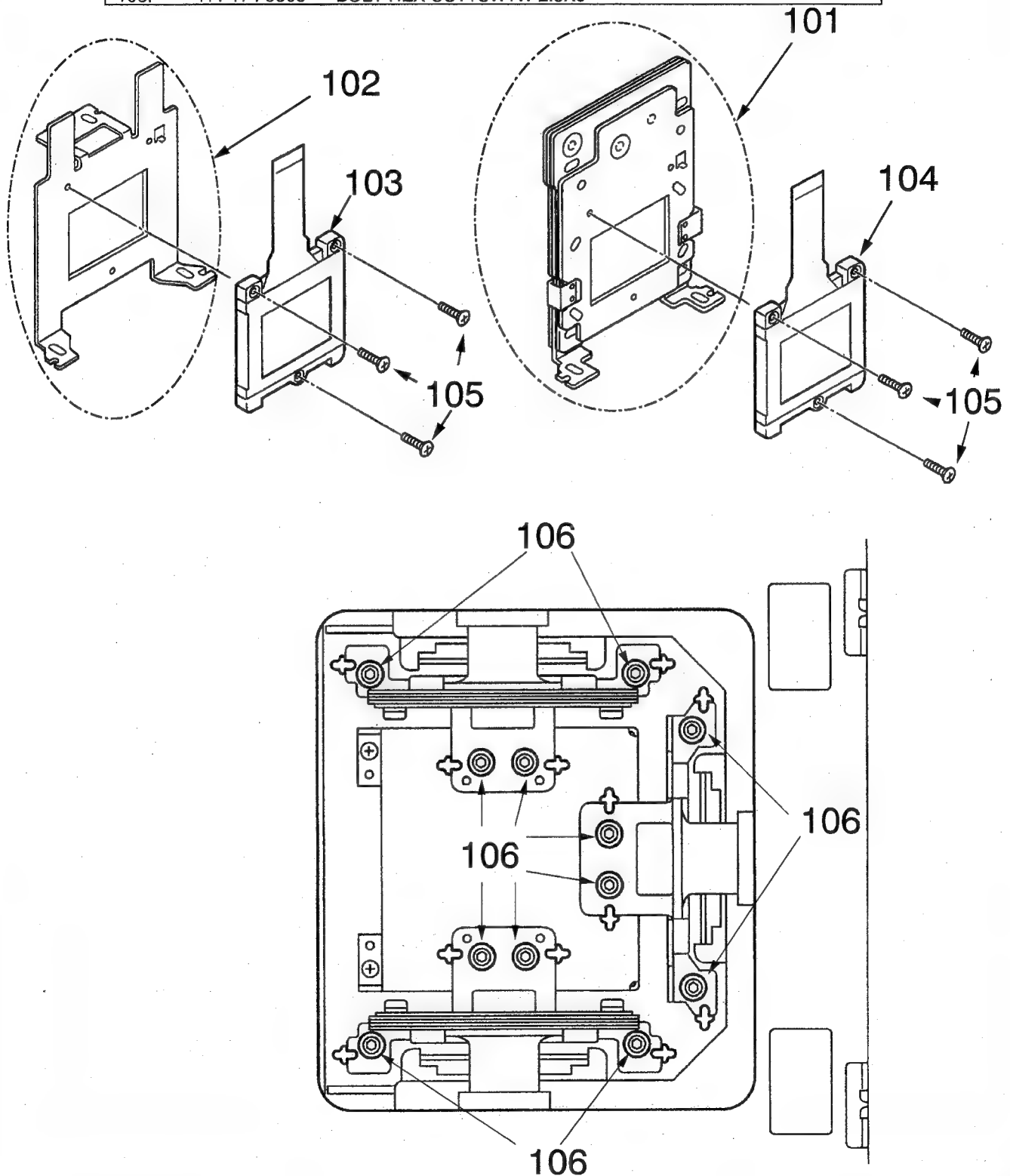
#### NOTE :

IF THERE IS A PROBLEM IN THE COMPL. HOLDER LENS, ONLY USE THESE REPLACEMENT PARTS FOR BEST PERFORMANCE.

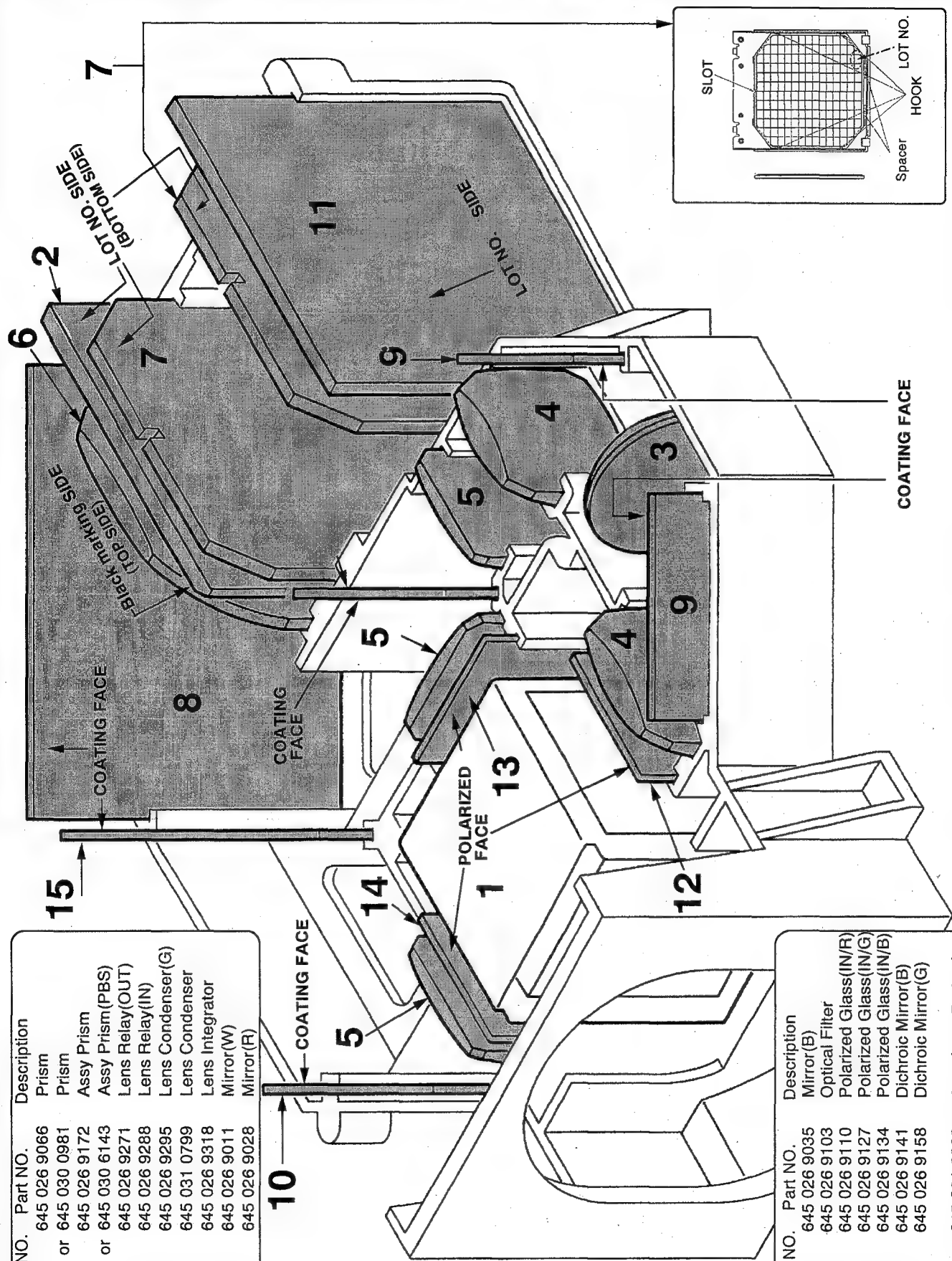
## ASSY LCD PANEL PARTS LIST

### ASSY LCD PANEL PARTS LIST

Key NO.	Part NO.	DESCRIPTION
101.	610 270 3313	COMPL.HOLDER LCD E-M6MA
102.	610 270 1890	HOLDER LCD E-M6MA
103.	GREEN LCD PANEL See electrical parts list "OUT OF CIRCUIT PCB"	
104.	RED & BLUE LCD PANEL See electrical parts list "OUT OF CIRCUIT PCB"	
105.	411 052 1509	SCR OVL 2X6
106.	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6



# OPTICAL PARTS LIST

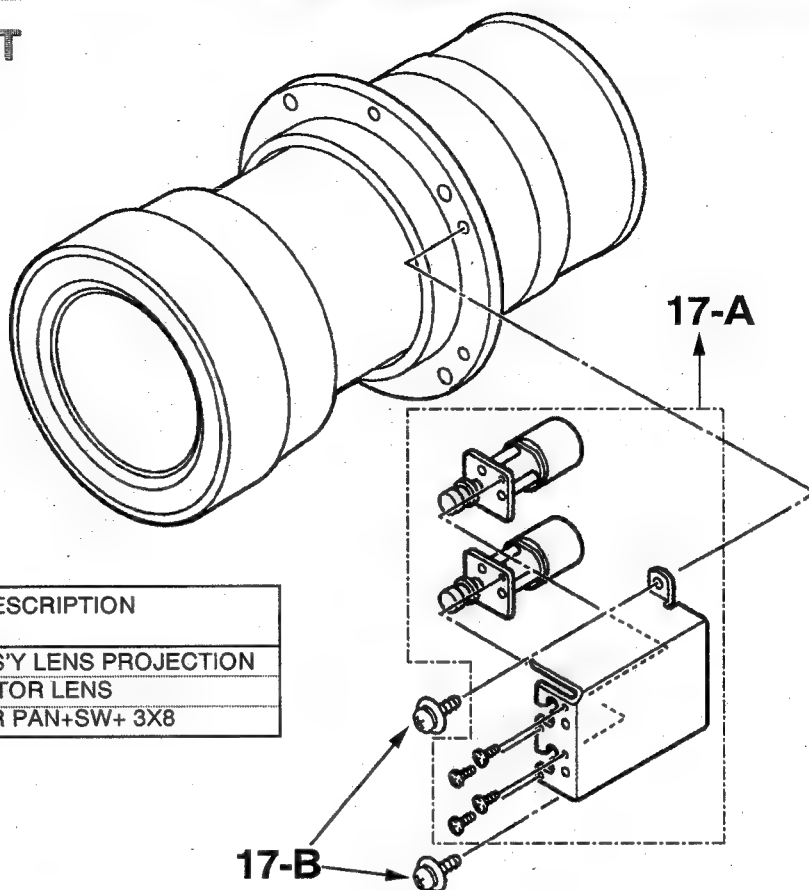


Key NO.	Part NO.	Description
1.	645 026 9066	Prism
	or 645 030 0981	Prism
2.	645 026 9172	Assy Prism
	or 645 030 6143	Assy Prism (PBS)
3.	645 026 9271	Lens Relay (OUT)
4.	645 026 9288	Lens Relay (IN)
5.	645 026 9295	Lens Condenser (G)
6.	645 031 0799	Lens Condenser
7.	645 026 9318	Lens Integrator
8.	645 026 9011	Mirror (W)
9.	645 026 9028	Mirror (R)

Key NO.	Part NO.	Description
10.	645 026 9035	Mirror (B)
11.	645 026 9103	Optical Filter
12.	645 026 9110	Polarized Glass (IN/R)
13.	645 026 9127	Polarized Glass (IN/G)
14.	645 026 9134	Polarized Glass (IN/B)
15.	645 026 9141	Dichroic Mirror (B)
16.	645 026 9158	Dichroic Mirror (G)
	645 031 2922	Assy Lens Projection

## OPTICAL PARTS LIST

# 17



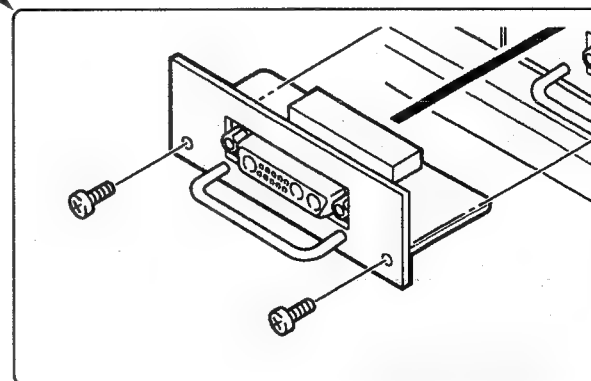
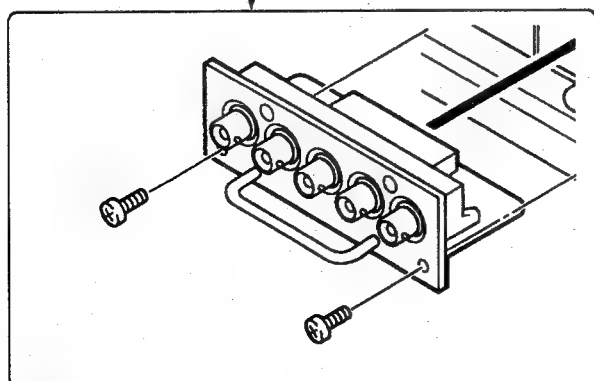
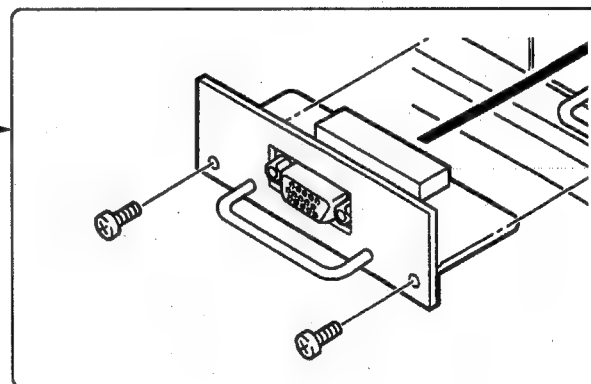
KEY NO.	PART NO.	DESCRIPTION
17.	645 031 2922	ASS'Y LENS PROJECTION
17-A	645 032 4741	MOTOR LENS
17-B	411 036 6001	SCR PAN+SW+ 3X8

## ACCESSORY (OPTION)

PLC-PC01  
ASS'Y DSUB15 TERMINAL

PLC-PC03  
ASS'Y 13W3 TERMINAL

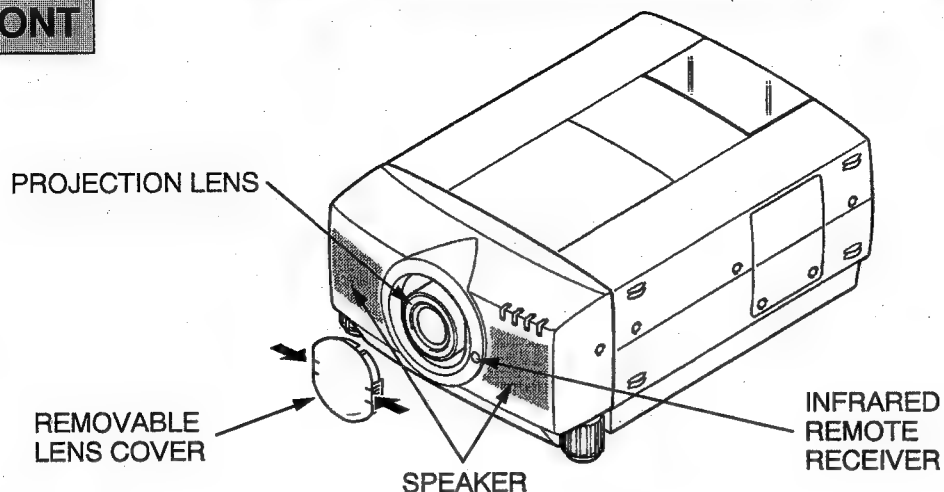
PLC-PC02  
ASS'Y BNC TERMINAL





## DESCRIPTION OF PROJECTOR

### FRONT



### REAR

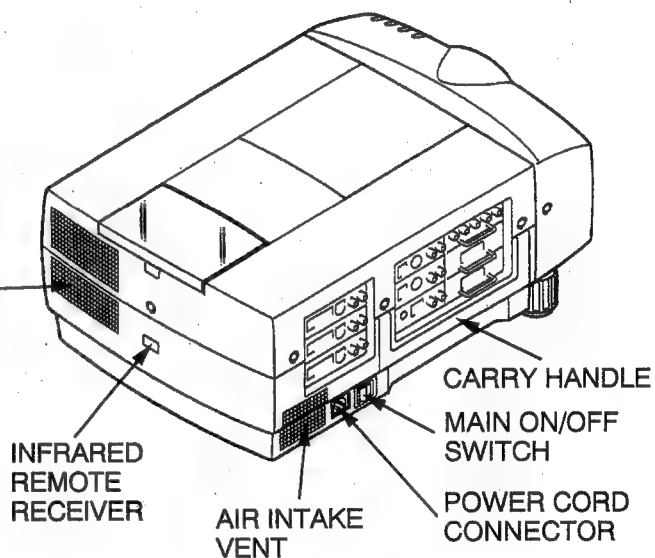
#### EXHAUST VENT



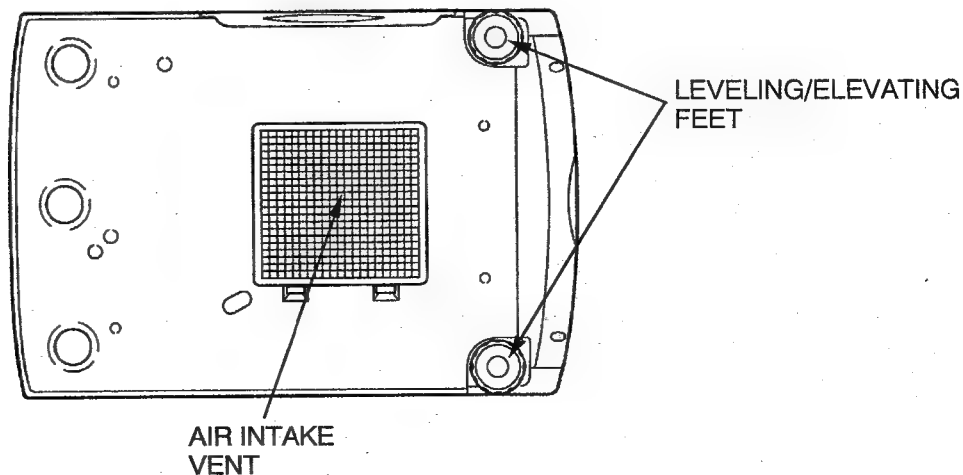
#### CAUTION HOT AIR !

Air blown from the exhaust vent is hot. Observe the following when handling your projector or choosing a location to install it.

- Keep heat-sensitive objects away from the exhaust port.
- If you set the projector on top of a metallic surface, the surface will become hot because of the hot air exhaust. Be careful when handling.
- Do not touch the cabinet near to the exhaust vent area, and especially screws and metallic parts. These parts will become hot while the projector is used.



### BOTTOM



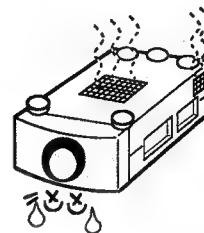
# SETTING-UP THE PROJECTOR

## POSITIONING:

- This projector is basically designed to project on a flat projection surface.
- This projector can be focused from 3.6' (1.1m) ~ 73.2' (22.3m).
- Refer to the figure below as an example when positioning the projector to the screen.

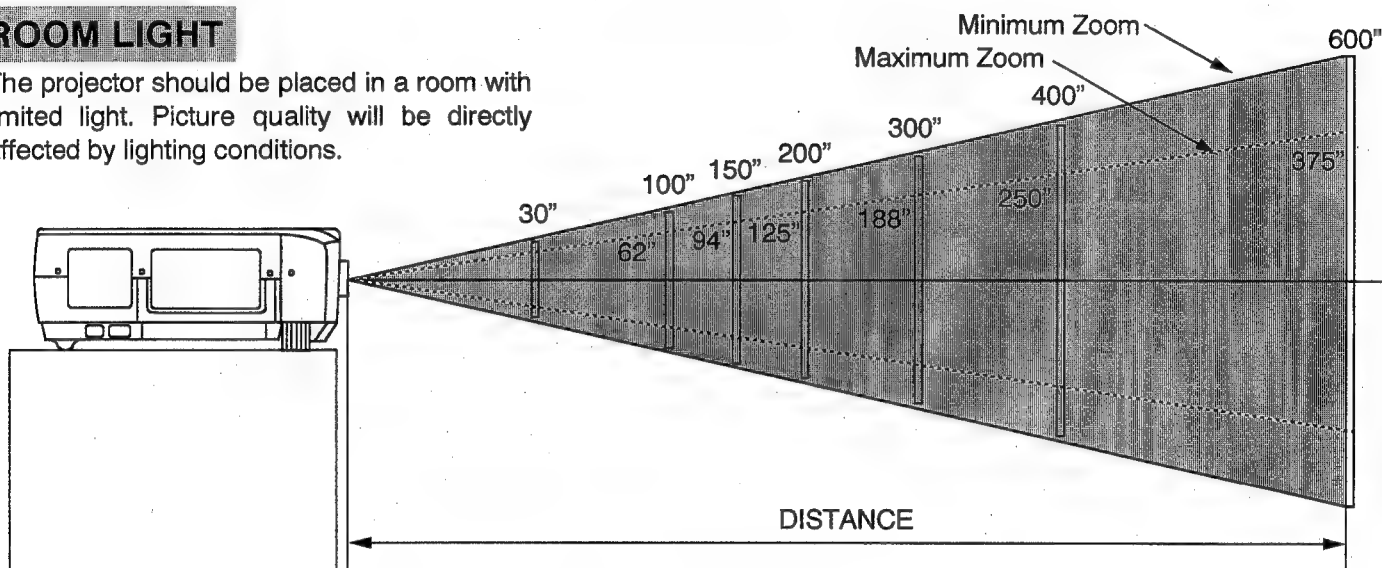


**THIS PROJECTOR SHOULD BE SET IN THE WAY INDICATED. NEVER HANG THE PROJECTOR, OR FALL DOWN ON ITS SIDE. IT MAY RESULT IN FIRE HAZARD.**



## ROOM LIGHT

The projector should be placed in a room with limited light. Picture quality will be directly affected by lighting conditions.



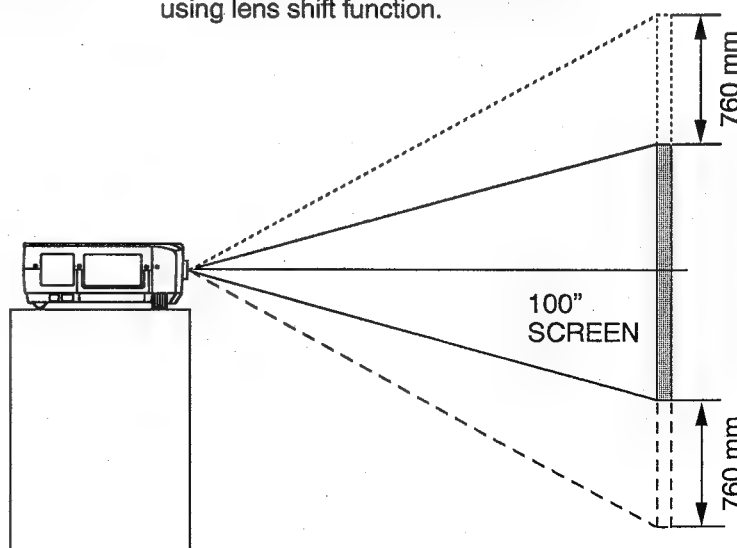
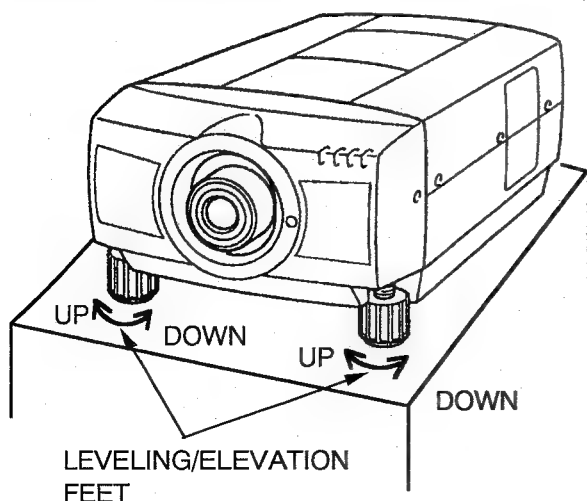
Screen Size	Max. Zoom	30"	100"	150"	200"	300"	400"	600"
	Min. Zoom	-----	62"	94"	125"	188"	250"	375"
Distance		3.6'(1.1 m)	11.8'(3.6 m)	17.7'(5.4 m)	24.3'(7.4 m)	36.4'(11.1 m)	48.6'(14.8 m)	73.2'(22.3 m)

## LEVELING AND ELEVATING ADJUSTMENTS

Two feet adjust the projection angle and leveling the projector. The projection angle can be adjusted up to 4° degrees by rotating the two (left and right) feet located on the bottom of the projector. Level the projector by rotating the two feet.

## MOVE THE PROJECTED IMAGE POSITIO

Adjust the projected image position (maximum 760 mm downward or upward on the 100" screen) using lens shift function.

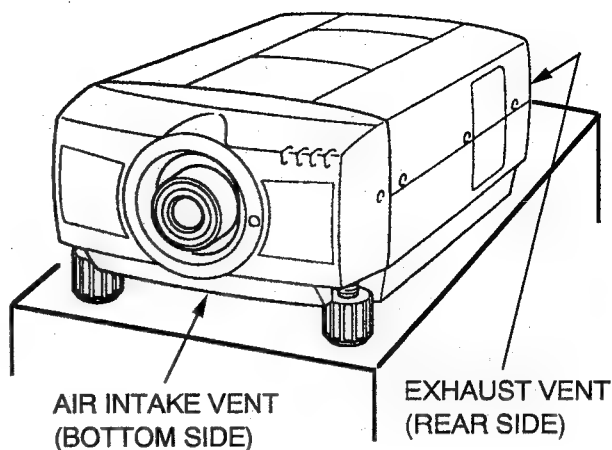


## VENTILATION

This projector is equipped with a cooling fan to protect it from overheating. Pay attention to the following to ensure the ventilation and avoid a possible risk of fire and malfunction.



- Do not cover the vents with papers or other materials.
- Keep the rear grill at least 3.3' (1m) away from any object.
- Make sure that there are no objects under the projector. An object under the projector may prevent the projector from taking the cooling air through the bottom vent.

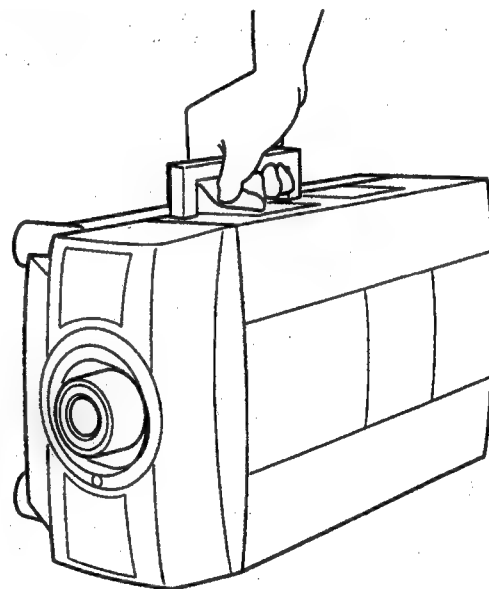


## MOVING THE PROJECTOR

Use the carry handle when moving the projector.



Replace the lens cover and rotate the leveling/elevation feet fully clockwise when moving the projector to prevent damage to the projector.

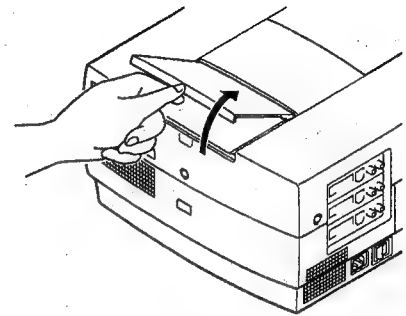
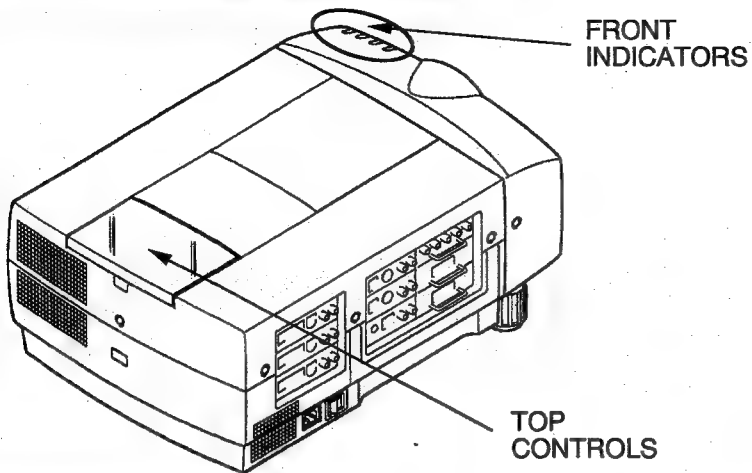


## CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

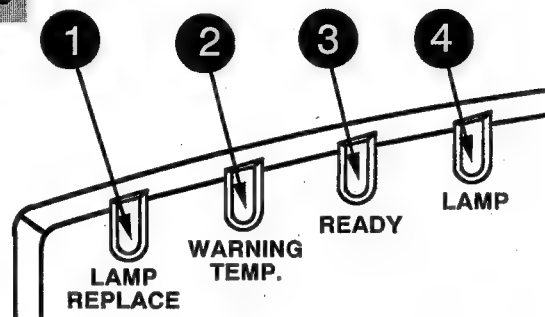
- Do not drop or give a shock to the projector, otherwise damage or malfunction may result.
- When carrying the projector, use a recommended Carrying Case.
- Do not transport the projector by using a courier or transport service in an unsuitable transport case. This may cause damage to the projector. To transport the projector through a courier or transport service, use a recommended Case.
- For a carrying or transportation cases, contact a authorized dealer.

# OPERATION OF CONTROLS

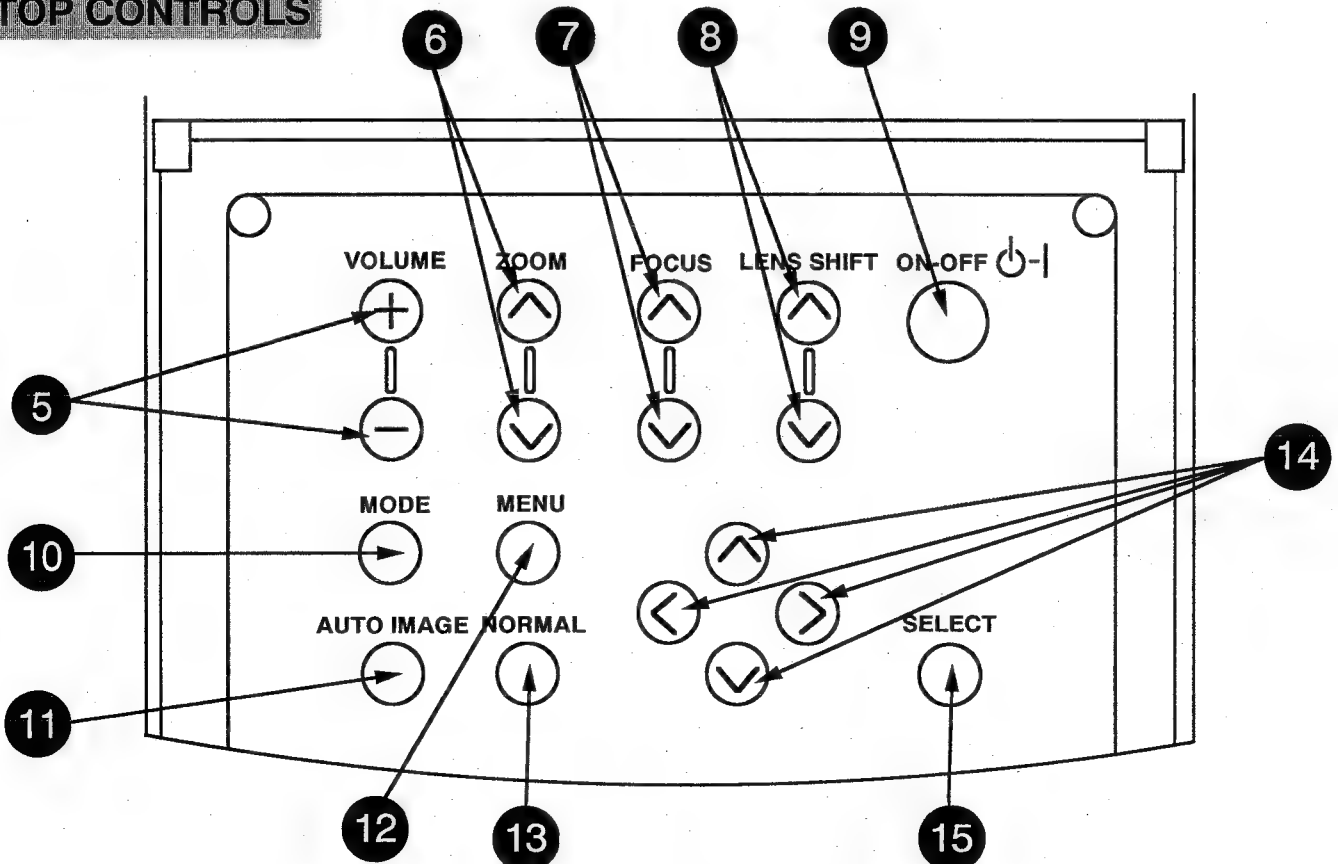
## TOP OF THE PROJECTOR



## FRONT INDICATORS

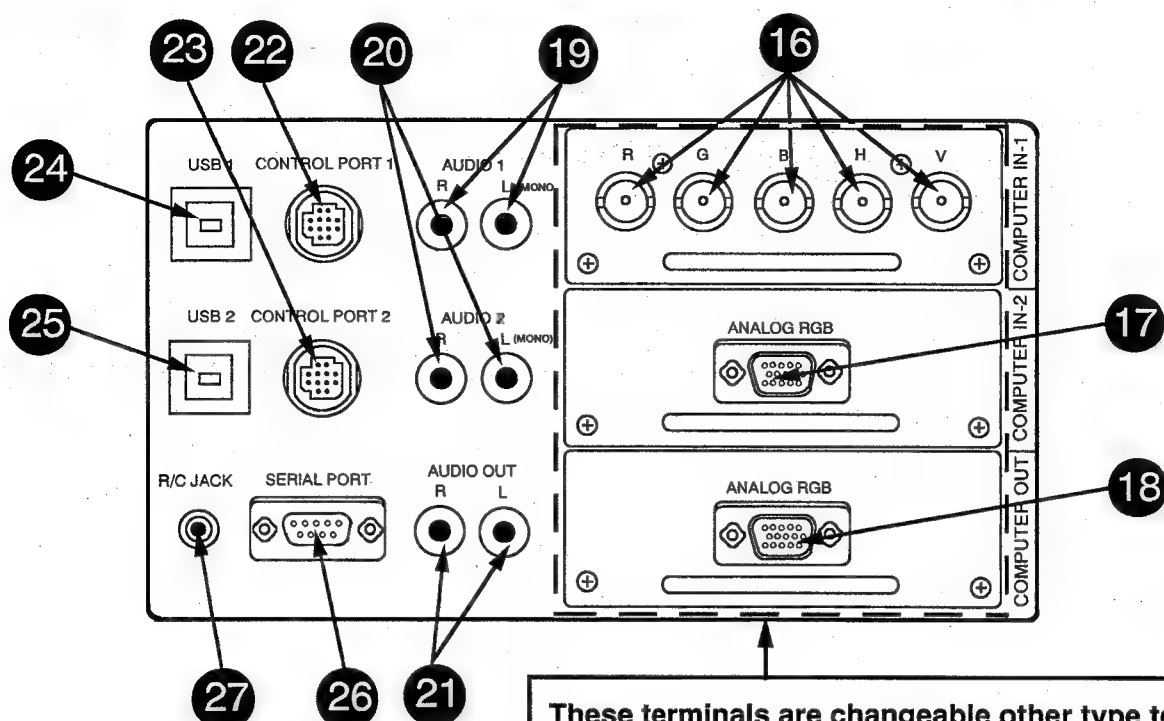


## TOP CONTROLS



- 1 LAMP REPLACEMENT INDICATOR**  
Light is orange when projection lamp is nearing end of service life.
- 2 TEMPERATURE WARNING INDICATOR**  
Flashes red when internal projector temperature is too high.
- 3 READY INDICATOR**  
Light is green when projector lamp is ready to be turned on.
- 4 LAMP POWER INDICATOR**  
Light is dim when the projector is on.  
Light is brightened when the projector is in stand-by mode.
- 5 VOLUME BUTTONS**  
Used to adjust volume.
- 6 ZOOM BUTTONS**  
Used to operate power zoom lens.
- 7 FOCUS BUTTONS**  
Used to operate power focus system.
- 8 LENS SHIFT BUTTONS**  
Used to operate power lens shift.
- 9 LAMP POWER ON/OFF BUTTON**  
Used to turn projection lamp on or off.
- 10 MODE BUTTON**  
Used to select source.
- 11 AUTO IMAGE BUTTON**  
Used to operate the AUTO IMAGE function.
- 12 MENU BUTTON**  
This button will activate the MENU operation.  
Use this button, the POINT UP/DOWN/LEFT/RIGHT buttons and the SELECT button to make adjustments to the projector's setting in MENU operation.
- 13 NORMAL BUTTON**  
Used to reset to normal picture adjustment preset by factory.
- 14 POINT UP/DOWN/LEFT/RIGHT BUTTONS**  
To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing these buttons (UP, DOWN, LEFT or RIGHT).
- 15 SELECT BUTTON**  
This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as CONTRAST or BRIGHTNESS.

## SIDE OF THE PROJECTOR (CONNECT THE COMPUTER)

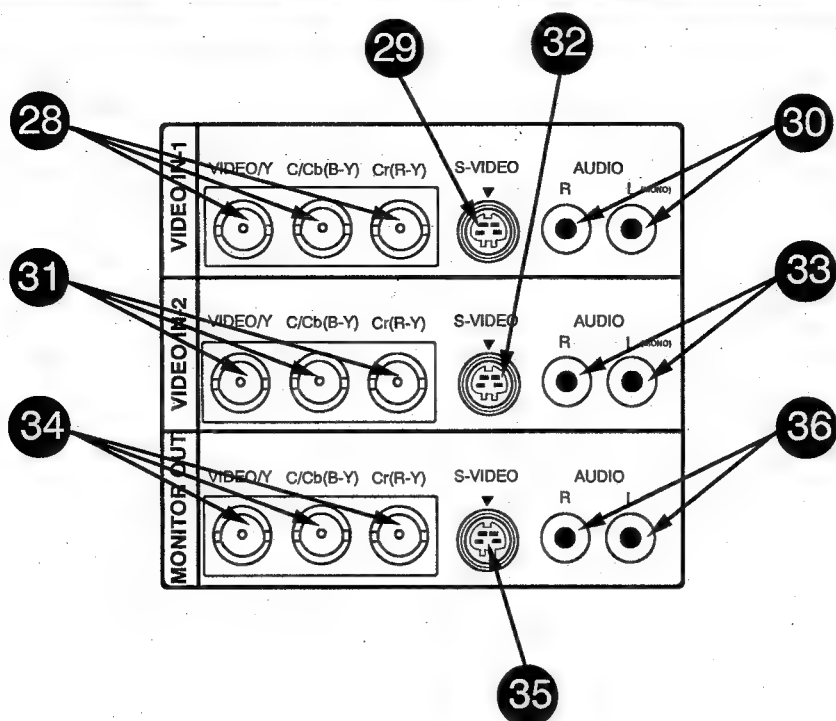


These terminals are changeable other type terminals. If you want to change the terminals, contact your authorized dealer or service station.

- 16 COMPUTER INPUT-1 JACKS (BNC TYPE × 5)**  
Used to connect a computer to the projector.
- 17 COMPUTER INPUT-2 TERMINAL (VGA HDB15)**  
Used to connect a computer to the projector.
- 18 MONITOR OUTPUT TERMINAL (VGA HDB15)**  
Used to connect a monitor to the projector.
- 19 COMPUTER AUDIO INPUT-1 JACKS (R and L)**  
Used to connect an audio output from the computer to the projector.
- 20 COMPUTER AUDIO INPUT-2 JACKS (R and L)**  
Used to connect an audio output from the computer to the projector.
- 21 COMPUTER AUDIO MONITOR OUTPUT JACKS (R and L)**  
Used to connect an audio input from audio equipment to the projector.
- 22 CONTROL PORT-1 CONNECTOR**  
Used to connect a mouse cable to the projector.
- 23 CONTROL PORT-2 CONNECTOR**  
Used to connect a mouse cable to the projector.
- 24 USB PORT-1 CONNECTOR**  
Used to connect a computer to the projector.
- 25 USB PORT-2 CONNECTOR**  
Used to connect a computer to the projector.
- 26 SERIAL PORT TERMINAL (DB9)**  
Used to connect a computer to the projector.
- 27 WIRED REMOTE JACK**  
When using the wired remote control, connect the remote cable to this jack.



## SIDE OF THE PROJECTOR (CONNECT THE VIDEO EQUIPMENT)



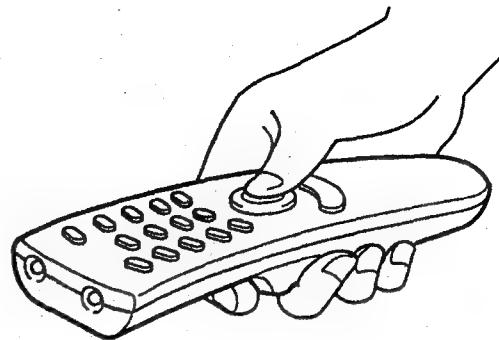
- 28 VIDEO INPUT JACKS-1 (BNC TYPE × 3)**  
Used to connect a video source to the projector.
- 29 S-VIDEO INPUT JACK-1**  
Used to connect a S-VHS video source to the projector.
- 30 AUDIO INPUT JACKS-1 (R and L)**  
Used to connect an audio source to the projector.
- 31 VIDEO INPUT JACKS-2 (BNC TYPE × 3)**  
Used to connect a video source to the projector.
- 32 S-VIDEO INPUT JACK-2**  
Used to connect a S-VHS video source to the projector.
- 33 AUDIO INPUT JACKS-2 (R and L)**  
Used to connect an audio source to the projector.
- 34 VIDEO MONITOR OUTPUT JACKS (BNC TYPE × 3)**  
Permits video connection to a monitor.
- 35 VIDEO MONITOR (S-VIDEO) OUTPUT JACK**  
Permits S-VHS video connection to a monitor.
- 36 AUDIO MONITOR OUTPUT JACKS (R and L)**  
Permits audio connection to a monitor.

## OPERATION OF REMOTE CONTROL (Wireless)

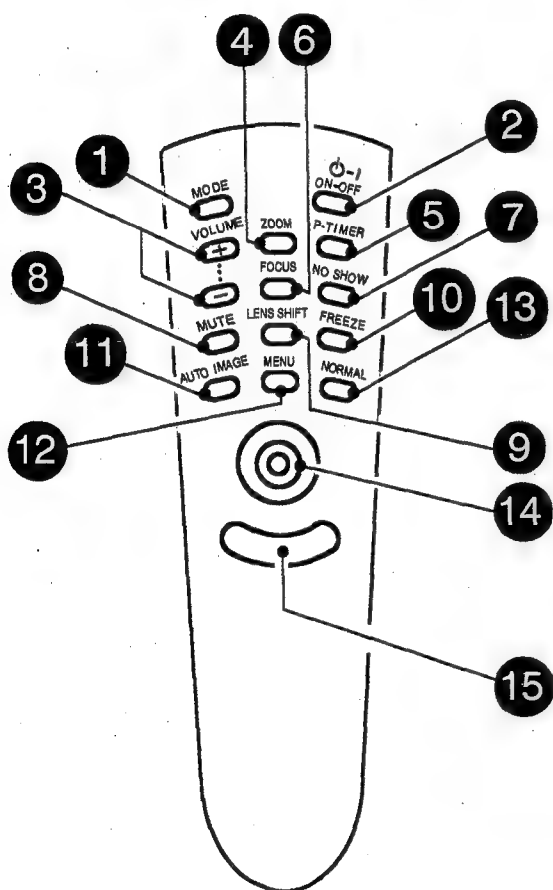
This remote control unit is not only able to operate the projector but also usable as a wireless mouse for a PC. One pointing pad and two click buttons are used for wireless mouse operation.

Wireless mouse is usable when PC mouse pointer is displayed on the screen. When the menu or indicator of the projector is displayed on the screen instead of the PC mouse pointer, the wireless mouse cannot be used.

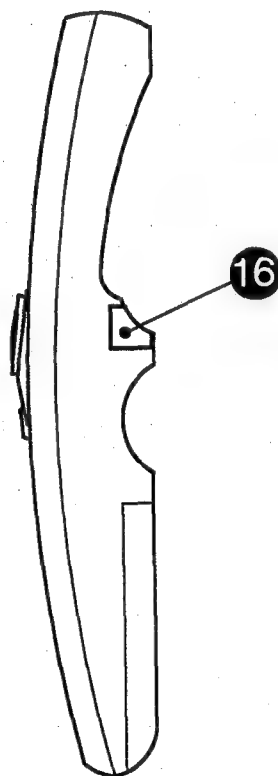
**NOTE:** To use the unit as a PC wireless mouse, connect the projector to the PC with the attached cable. Signals from the projector are transmitted to the PC, enabling the remote control unit of the projector to be used as a PC wireless mouse.



FRONT



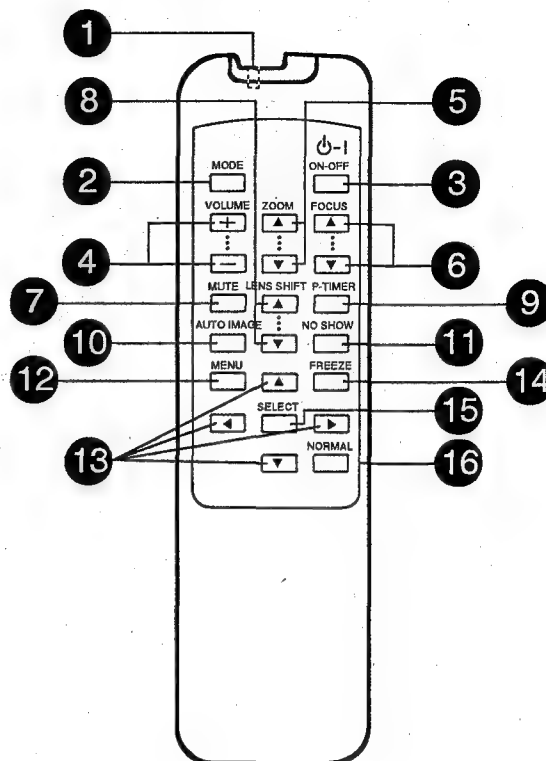
SIDE



- 1 MODE BUTTON**  
Used to select source.
- 2 LAMP POWER ON/OFF BUTTON**  
Used to turn the projection lamp on or off.
- 3 VOLUME BUTTONS**  
Used to adjust volume.
- 4 ZOOM BUTTON**  
Used to select power zoom lens adjust.
- 5 P-TIMER BUTTON**  
Used to operate the P-TIMER function.
- 6 FOCUS BUTTON**  
Used to select focus adjust.
- 7 NO SHOW BUTTON**  
Used to change the screen into black image.
- 8 SOUND MUTE BUTTON**  
Used to mute sound.
- 9 LENS SHIFT BUTTON**  
Used to select power lens shift.
- 10 FREEZE BUTTON**  
Use this button to freeze on-screen image.
- 11 AUTO IMAGE BUTTON**  
Used to operate the AUTO IMAGE function.
- 12 MENU BUTTON**  
This button will activate the MENU operation. Use this button, the POINT UP/DOWN/LEFT/RIGHT button and the SELECT (REAR CLICK) button to make adjustments to the projector's setting in MENU operation.
- 13 NORMAL BUTTON**  
Use to reset to normal picture adjustment preset by factory.
- 14 POINTING PAD  
(POINT UP/DOWN/LEFT/RIGHT BUTTON)**  
**When in use as a remote for the projector.**  
To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing the pad upward, downward, leftward or rightward.  
Used to operate power zoom lens, power focus system or power lens shift by pressing the pad either upward or downward.  
  
**When in use as a wireless mouse**  
Used to move the pointer. The pointer is moved according to the direction you are pressing.
- 15 FRONT CLICK BUTTON**  
This button has the same function as the right button in a PC mouse. Pressing this button does not affect any operation when in MENU mode.
- 16 SELECT (REAR CLICK) BUTTON**  
**When in use as a remote for the projector.**  
This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as CONTRAST or BRIGHTNESS.  
  
**When in use as a wireless mouse**  
This button has the same function as the left button in a PC mouse.

## OPERATION OF REMOTE CONTROL (Wireless/Wired)

- 1 WIRED REMOTE JACK**  
When using the wired remote control, connect the remote cable to this jack.
- 2 MODE BUTTON**  
Used to select source.
- 3 LAMP POWER ON/OFF BUTTON**  
Used to turn projection lamp on or off.
- 4 VOLUME BUTTONS**  
Used to adjust volume.
- 5 ZOOM BUTTONS**  
Used to operate power zoom lens.
- 6 FOCUS BUTTONS**  
Used to operate power focus system.
- 7 SOUND MUTE BUTTON**  
Used to mute sound.
- 8 LENS SHIFT BUTTONS**  
Used to operate power lens shift.
- 9 P-TIMER BUTTON**  
Used to operate the P-TIMER function.
- 10 AUTO IMAGE BUTTON**  
Used to operate the AUTO IMAGE function.
- 11 NO SHOW BUTTON**  
Used to change the screen into black image.
- 12 MENU BUTTON**  
This button will activate the MENU operation.  
Use this button, the POINT UP/DOWN/LEFT/RIGHT buttons and the SELECT button to make adjustments to the projector's setting in MENU operation.
- 13 POINT UP/DOWN/LEFT/RIGHT BUTTONS**  
To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing these buttons (UP, DOWN, LEFT or RIGHT).
- 14 FREEZE BUTTON**  
Use this button to freeze on-screen image.
- 15 SELECT BUTTON**  
This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as CONTRAST or BRIGHTNESS.
- 16 NORMAL BUTTON**  
Used to reset to normal picture adjustment preset by factory.



## COMPATIBLE COMPUTER SPECIFICATIONS

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA1	640 × 480	31.47	59.88	XGA9	1024 × 768	36.00	87.17 (Interlace)
VGA2	720 × 400	31.47	70.09	XGA10	1024 × 768	62.04	77.07
VGA3	640 × 400	31.47	70.09	XGA11	1024 × 768	61.00	75.70
VGA4	640 × 480	37.86	74.38	XGA12	1024 × 768	35.522	86.96 (Interlace)
VGA5	640 × 480	37.86	72.81	XGA13	1024 × 768	46.90	58.20
VGA6	640 × 480	37.50	75.00	XGA14	1024 × 768	47.00	58.30
MAC LC13	640 × 480	34.97	66.60	MAC19	1024 × 768	60.24	75.08
MAC 13	640 × 480	35.00	66.67	SXGA1	1152 × 864	64.20	70.40
PC98	640 × 400	24.83	56.42	SXGA2	1280 × 1024	62.50	58.60
FM TOWNS	640 × 400	24.38	55.40	SXGA3	1280 × 1024	63.90	60.00
SVGA1	800 × 600	35.156	56.25	SXGA4	1280 × 1024	63.34	59.98
SVGA2	800 × 600	37.88	60.32	SXGA5	1280 × 1024	63.74	60.01
SVGA3	800 × 600	46.875	75.00	SXGA6	1280 × 1024	71.69	67.19
SVGA4	800 × 600	53.674	85.06	SXGA7	1280 × 1024	81.13	76.107
SVGA5	800 × 600	48.08	72.19	SXGA8	1280 × 1024	63.98	60.02
SVGA6	800 × 600	37.90	61.03	SXGA9	1280 × 1024	79.976	75.025
SVGA7	800 × 600	34.50	55.38	SXGA10	1280 × 960	60.00	60.00
SVGA8	800 × 600	38.00	60.51	SXGA11	1152 × 900	61.20	65.20
SVGA9	800 × 600	38.60	60.31	SXGA12	1152 × 900	71.40	75.60
SVGA10	800 × 600	47.90	71.92	SXGA13	1280 × 1024	50.00	86.00 (Interlace)
SVGA11	800 × 600	32.70	51.09	SXGA14	1280 × 1024	50.00	94.00 (Interlace)
SVGA12	800 × 600	38.00	60.51	SXGA15	1280 × 1024	63.37	60.01
MAC 16	832 × 624	49.72	74.55	SXGA16	1280 × 1024	76.97	72.00
XGA1	1024 × 768	48.36	60.00	SXGA17	1152 × 900	61.85	66.00
XGA2	1024 × 768	68.677	84.997	SXGA18	1280 × 1024	46.43	86.70 (Interlace)
XGA3	1024 × 768	60.023	75.03	SXGA19	1280 × 1024	63.79	60.18
XGA4	1024 × 768	56.47	70.07	MAC21	1152 × 870	68.68	75.06
XGA5	1024 × 768	60.31	74.92	MAC	1280 × 960	75.00	75.08
XGA6	1024 × 768	48.50	60.02	MAC	1280 × 1024	80.00	75.08
XGA7	1024 × 768	44.00	54.58				
XGA8	1024 × 768	63.48	79.35				

Specifications are subject to change without notice.

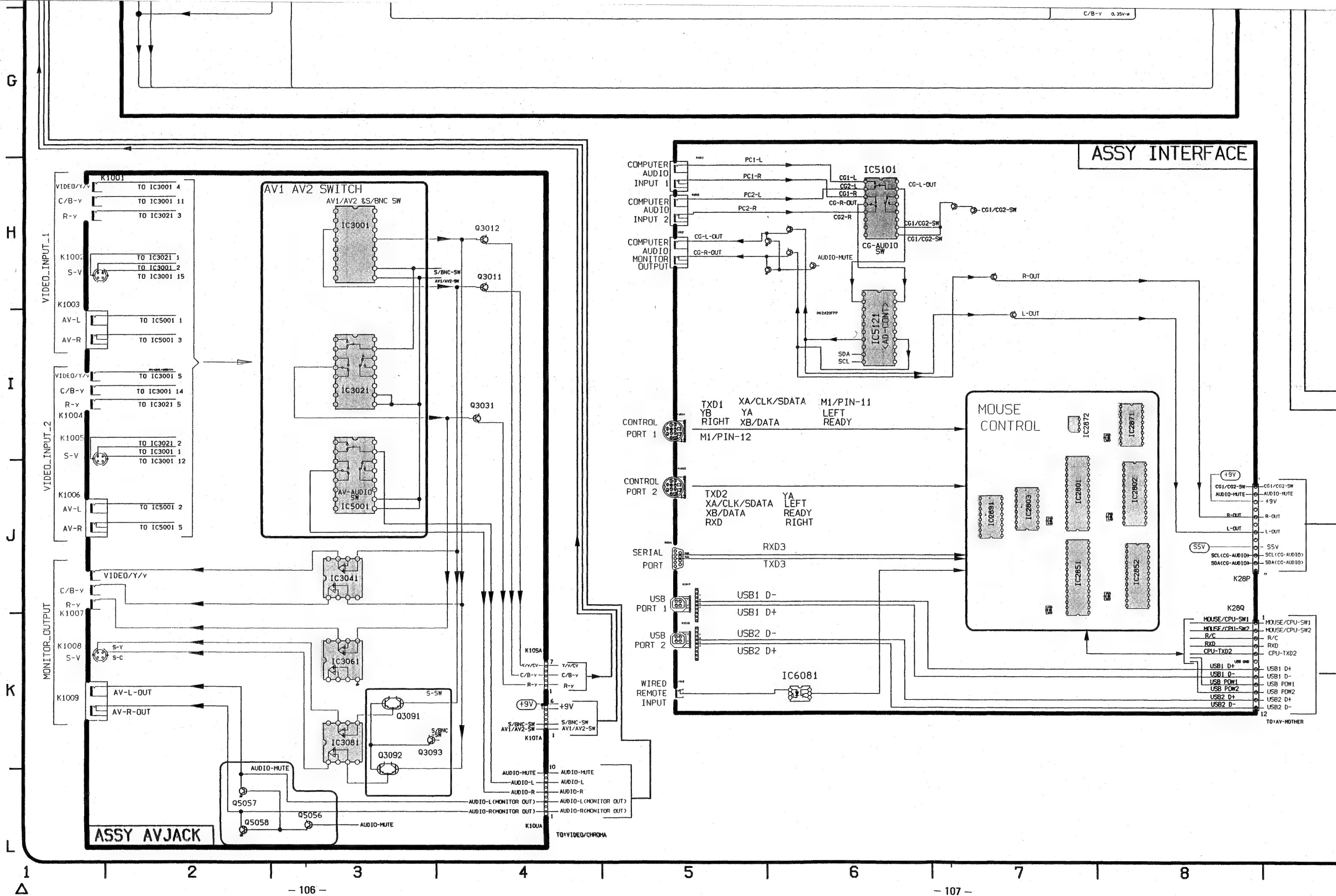
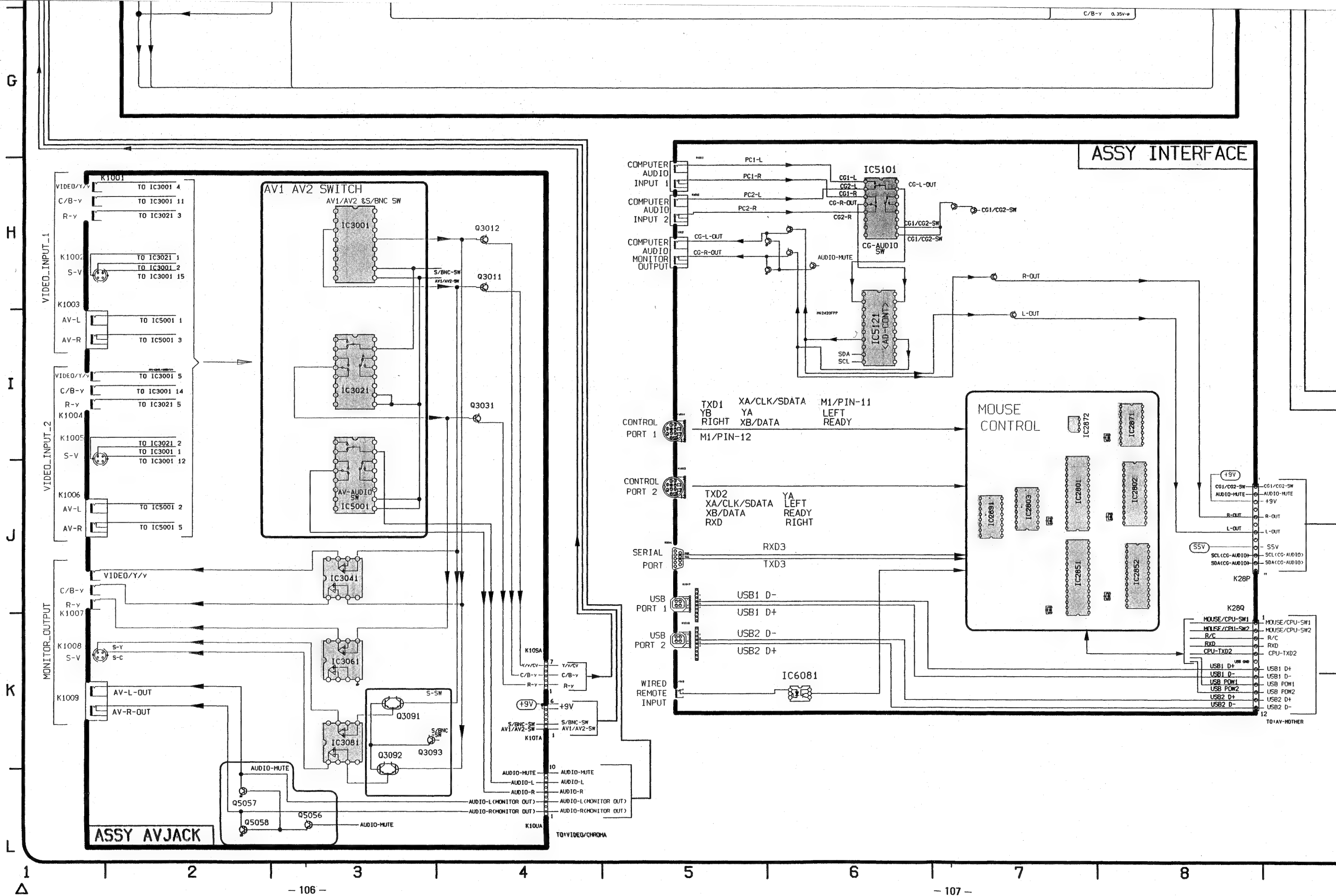
① PLC-9000/9000E/9005E/9005B    REVISED  
Reference. NO. SM525052

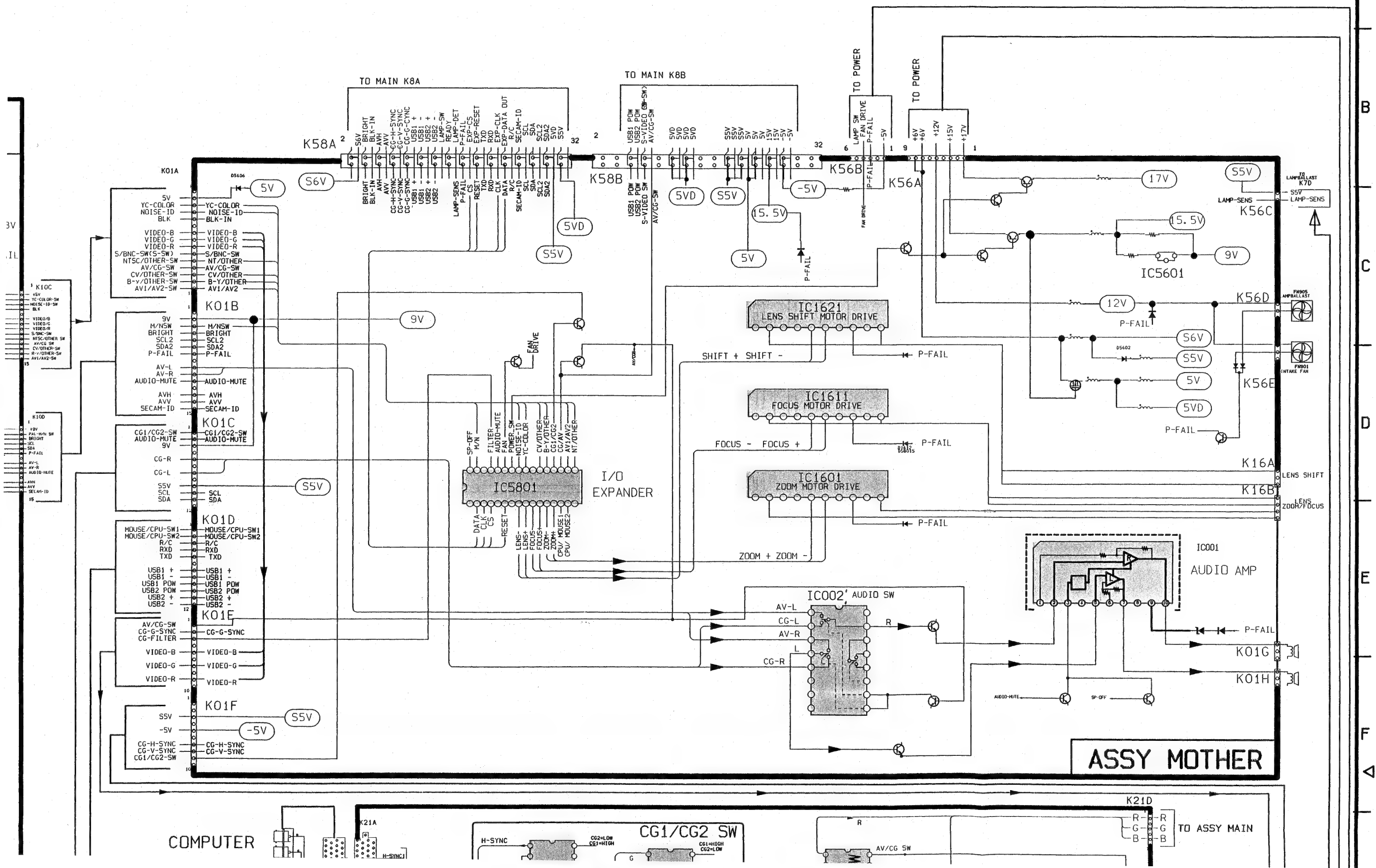
The schematic diagram illustrates the ASSY VIDEO circuit, featuring several key components and their connections:

- IC1171**: A central processing unit at the top left, receiving inputs like Y/C-SW, NTSC/OTHER-SW, and YC-COLOR-SW. It outputs signals such as Y/3L-Y, C/B-y, and C/3L-C.
- IC1191**: Located at the top right, it handles Y/3L-Y, Y, C, and Y-OUT signals.
- IC4001**: A 3\_LINE\_DIGITAL COMB\_FILTER, connected to TP4001 and providing YOUT and COUT signals.
- IC7161**: An A/D converter, interfaced with IC7001 via multiple signal lines.
- IC7001**: A COMB\_FILTER NOISE\_REDUCTION chip, which also interfaces with IC7131 (4M\_BIT\_DYNAMIC\_RAM) below it.
- IC7131**: A 4M\_BIT\_DYNAMIC\_RAM chip, connected to IC7001 and receiving power from a +9V source.
- IC5031**: An AUDIO\_CONTROL chip, connected to SDA and SCL lines.
- IC101**: The main VIDEO DECODER, receiving SECAM-CHROMA signals and outputting R-Y and B-Y signals. It includes internal switches for NTSC/PAL-N and PAL-M.
- IC102**: A SECAM\_DECODER, processing SECAM-ID signals.
- IC104**: A PAL SECAM\_DELAY chip, handling P/S B-Y signals.
- IC106** and **IC107**: Chips involved in NTSC/PAL selection and processing, outputting DIRECT B-Y/R-Y signals.
- IC1161**: A DIRECT B-Y/R-Y SELECTOR, routing signals based on NTSC/OTHER-SW or PAL/OTHER-SW settings.
- IC1151**: A DIRECT B-Y/R-Y AMP, providing a 1.33V-P output.
- IC4171**: A SYNC\_SEP. (Sync Separator) chip, generating a 3.5VP-P signal.
- IC7121**: A component connected to a +5V supply and providing a 3.3V output.

The circuit is powered by a +9V supply and includes various control lines (SDA, SCL) and status indicators (P-FAIL, SECAM-ID). Signal paths are clearly labeled throughout the diagram.



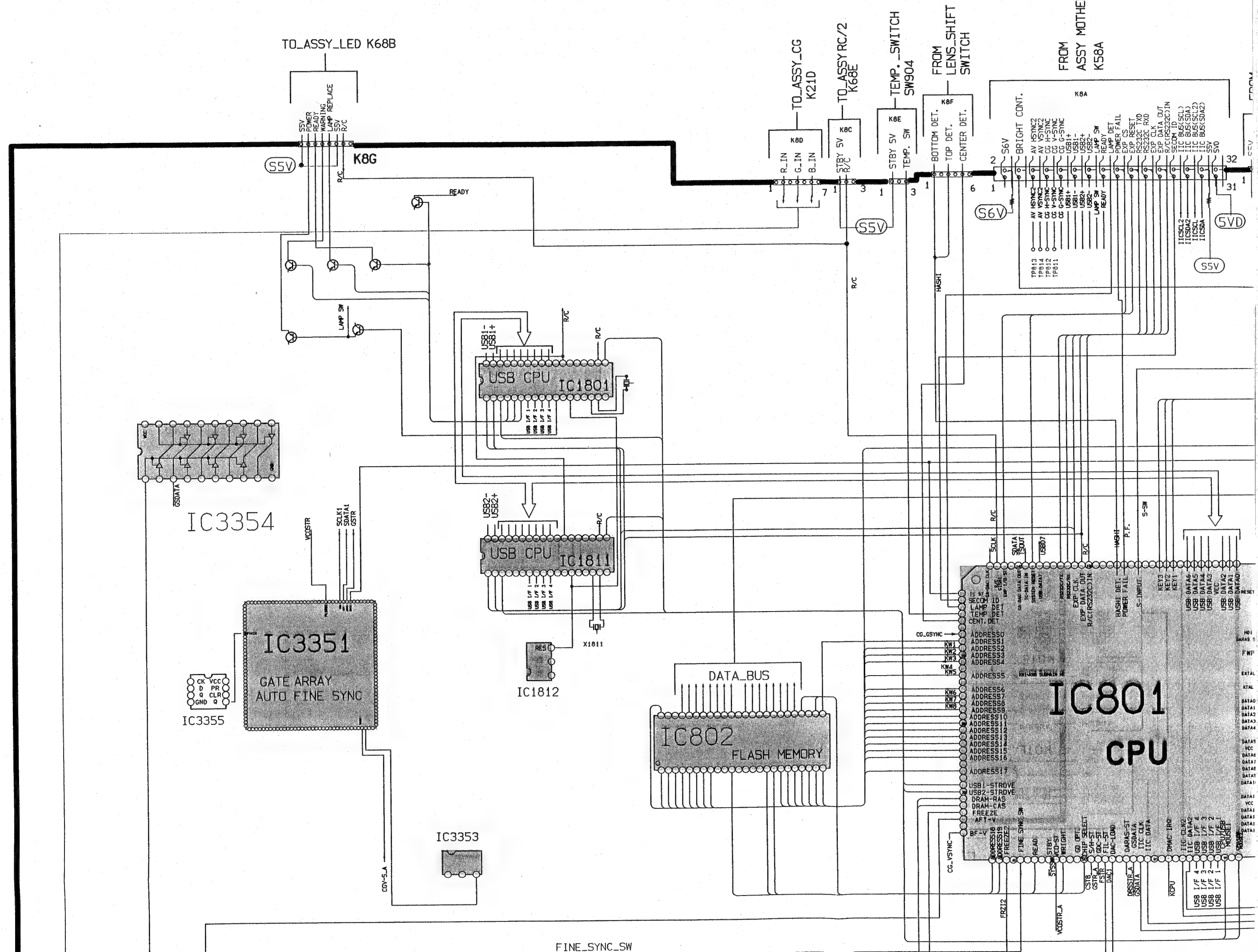






B2

# BLOCK DIAGRAM & +B DISTRIBUTION DIAGRAM-2





G  
H  
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1  
Δ

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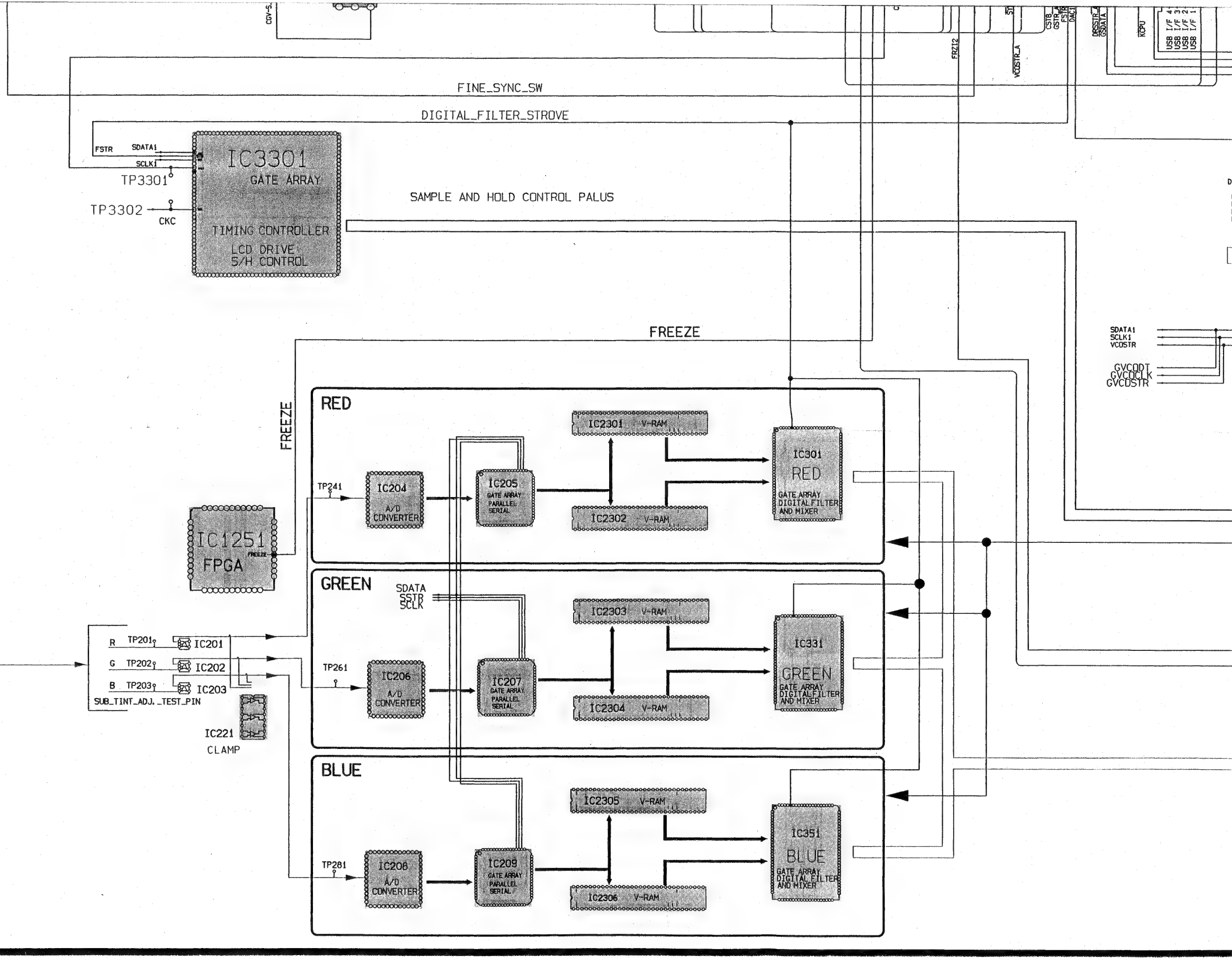
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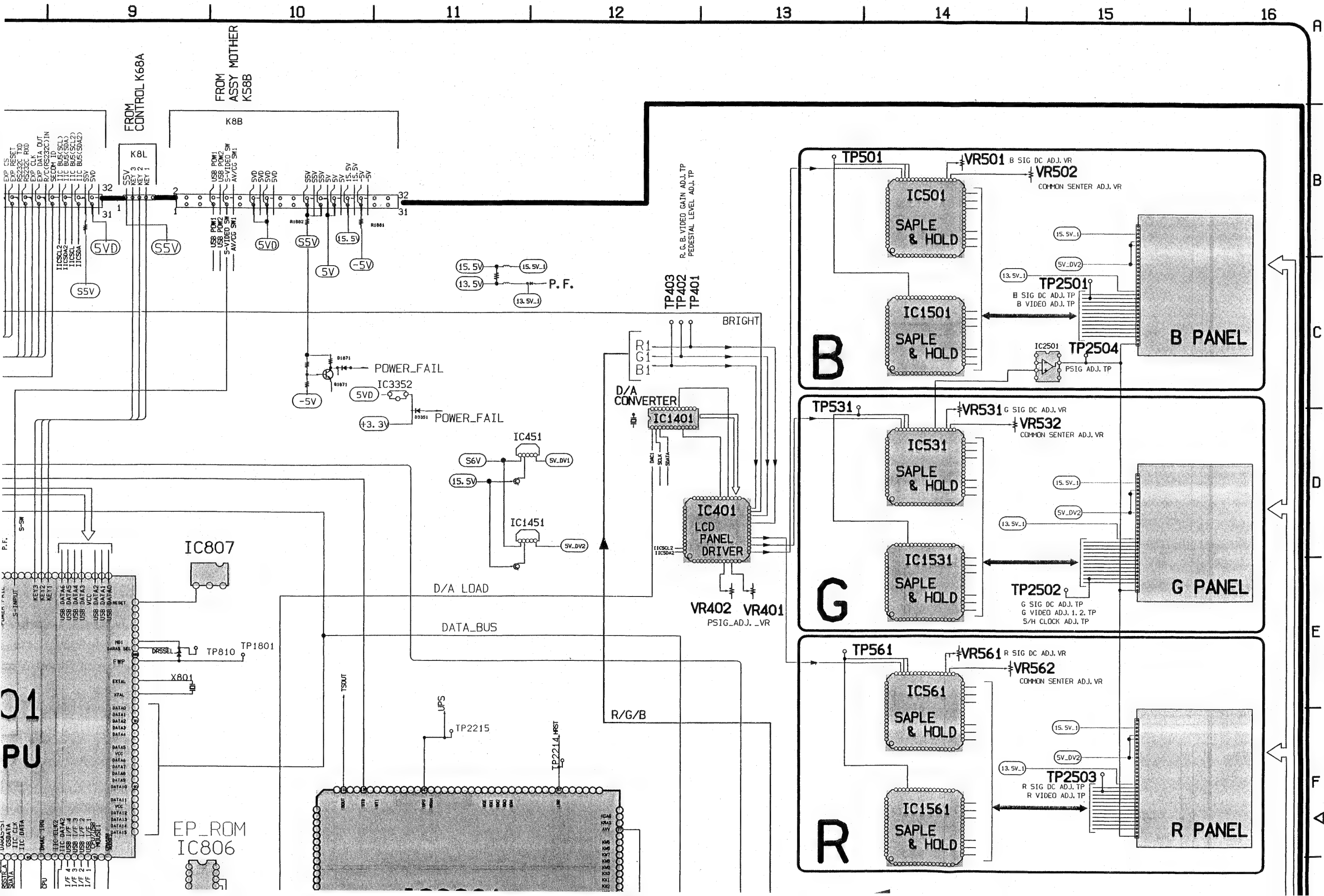
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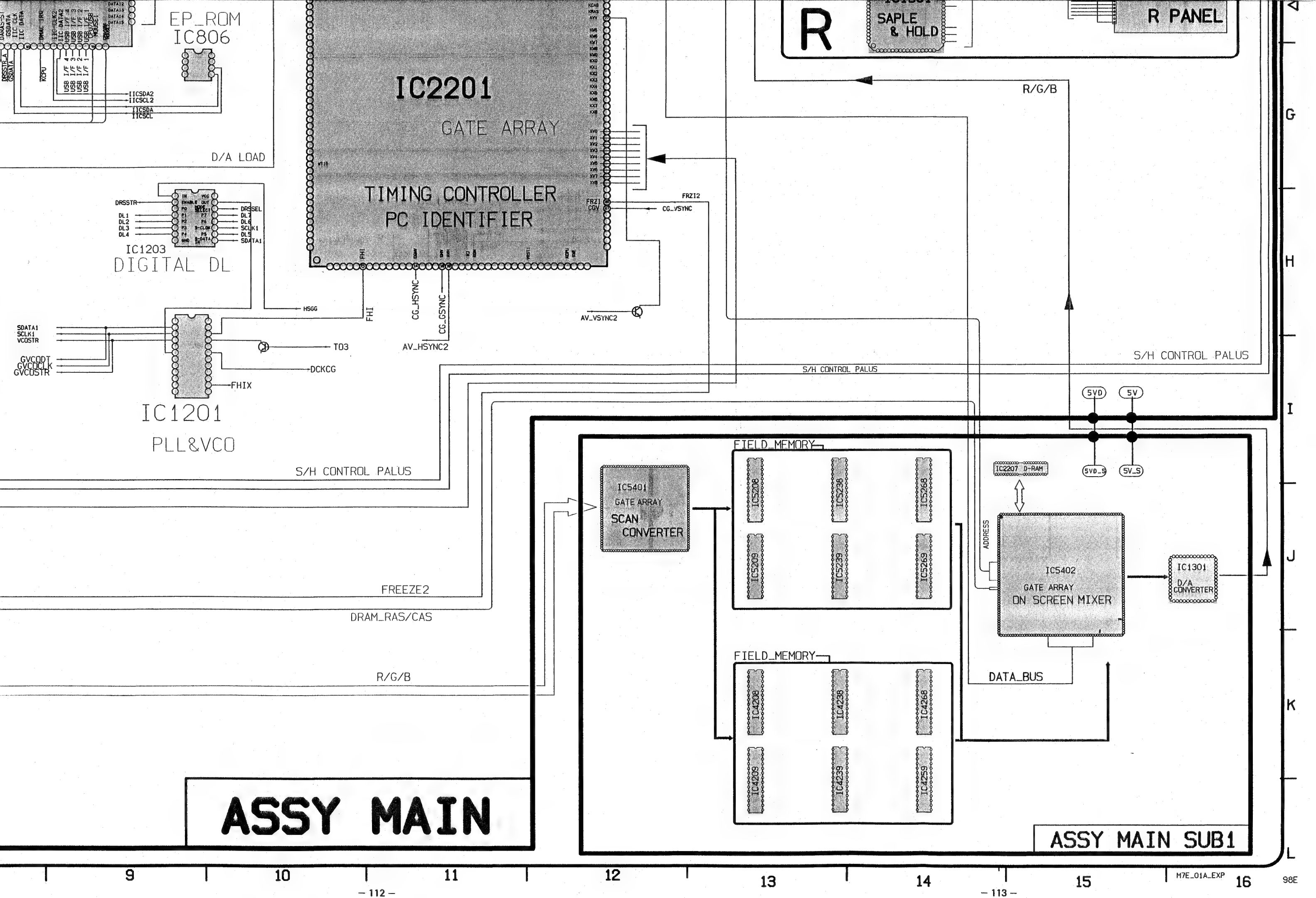
7

8









# POWER BOARD

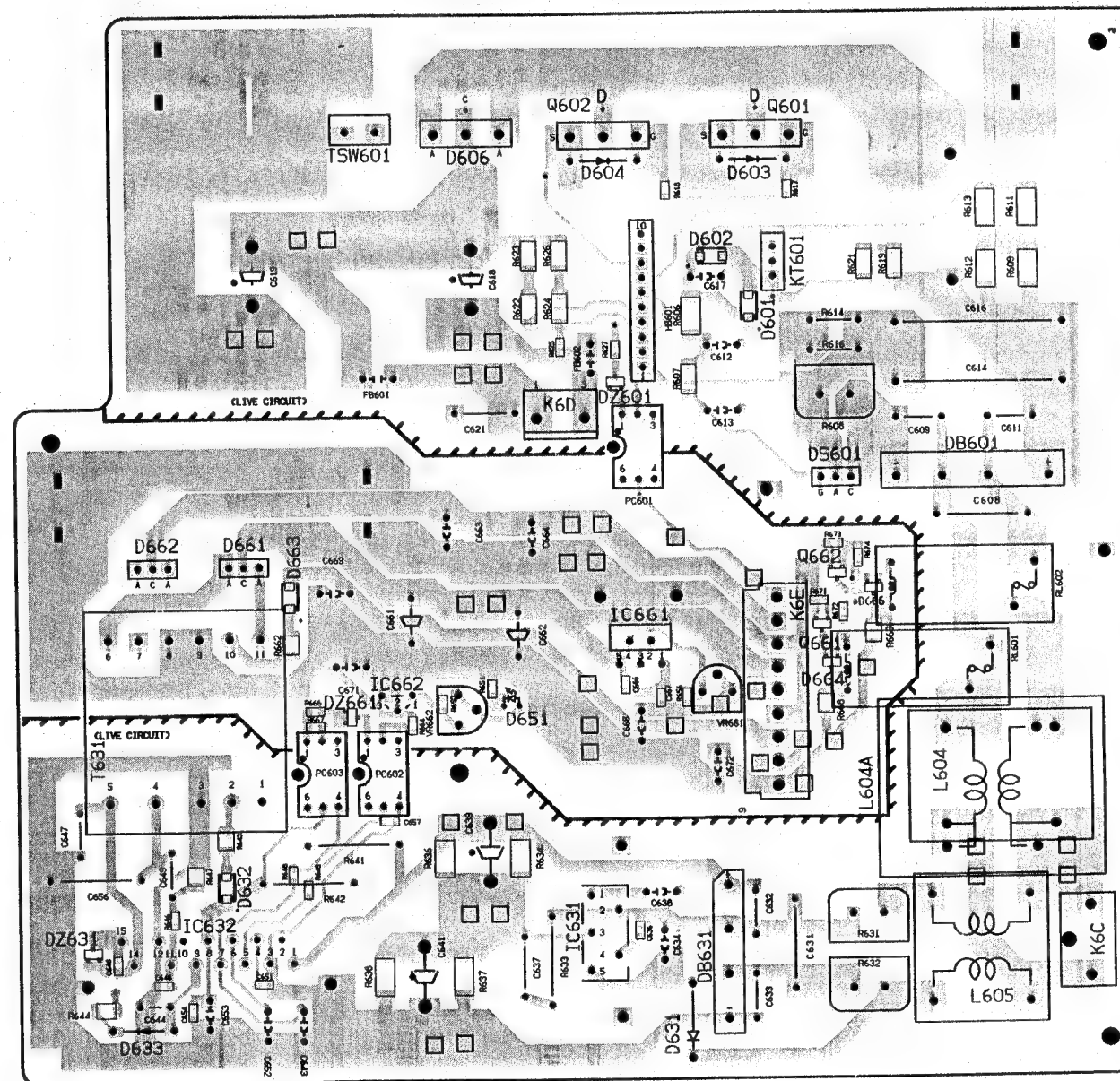
# FILTER BOARD

The diagram illustrates a filter board layout. Key components and their locations are as follows:

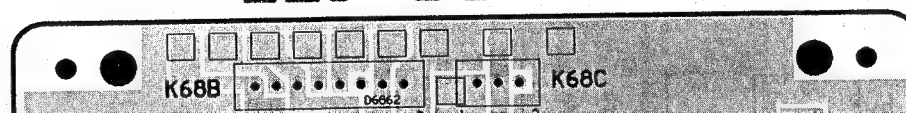
- Capacitors:** C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916, C917, C918, C919, C920, C921, C922, C923, C924, C925, C926, C927, C928, C929, C930, C931, C932, C933, C934, C935, C936, C937, C938, C939, C940, C941, C942, C943, C944, C945, C946, C947, C948, C949, C950, C951, C952, C953, C954, C955, C956, C957, C958, C959, C960, C961, C962, C963, C964, C965, C966, C967, C968, C969, C970, C971, C972, C973, C974, C975, C976, C977, C978, C979, C980, C981, C982, C983, C984, C985, C986, C987, C988, C989, C990, C991, C992, C993, C994, C995, C996, C997, C998, C999, C1000.

## SUB POWER BOARD

# LED BOARD



# CONTROL BOARD

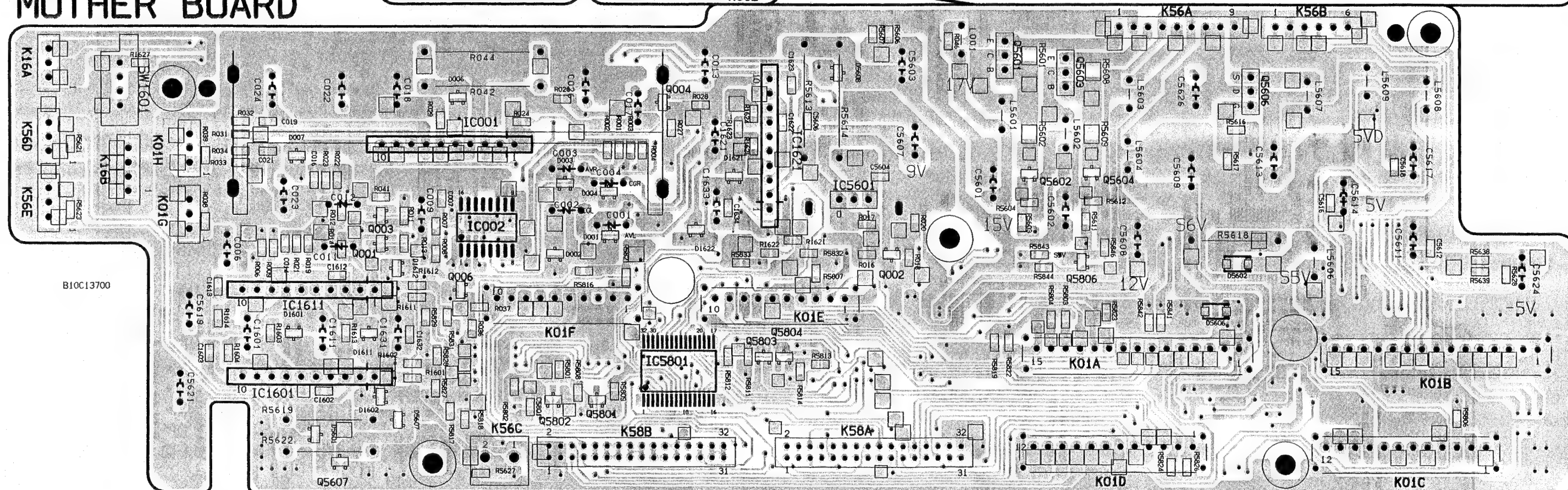




P.F.C. HIC

RC/1  
RC/2

MOTHER BOARD



5 VOL  
SW6816  
R6017  
VOL  
SW6817  
R6018  
MOD  
SW6818  
R6019  
AUTO IN  
SW6820  
R6024



# CONTROL BOARD

## LED BOARD





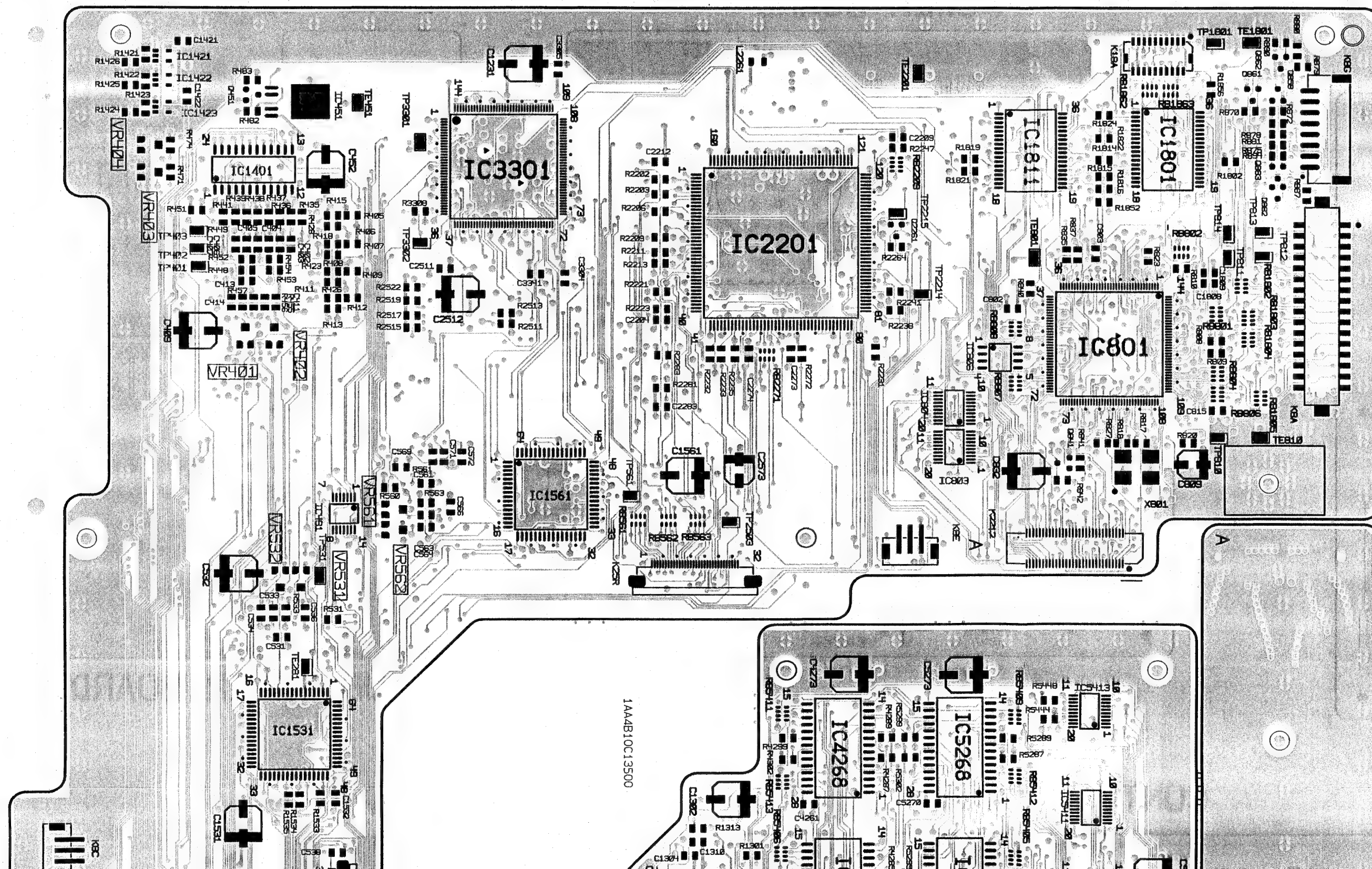


P2

# PCB PATTERN AND PARTS LOCATIONS

MAIN BOARD

COMPONENT(A) SIDE













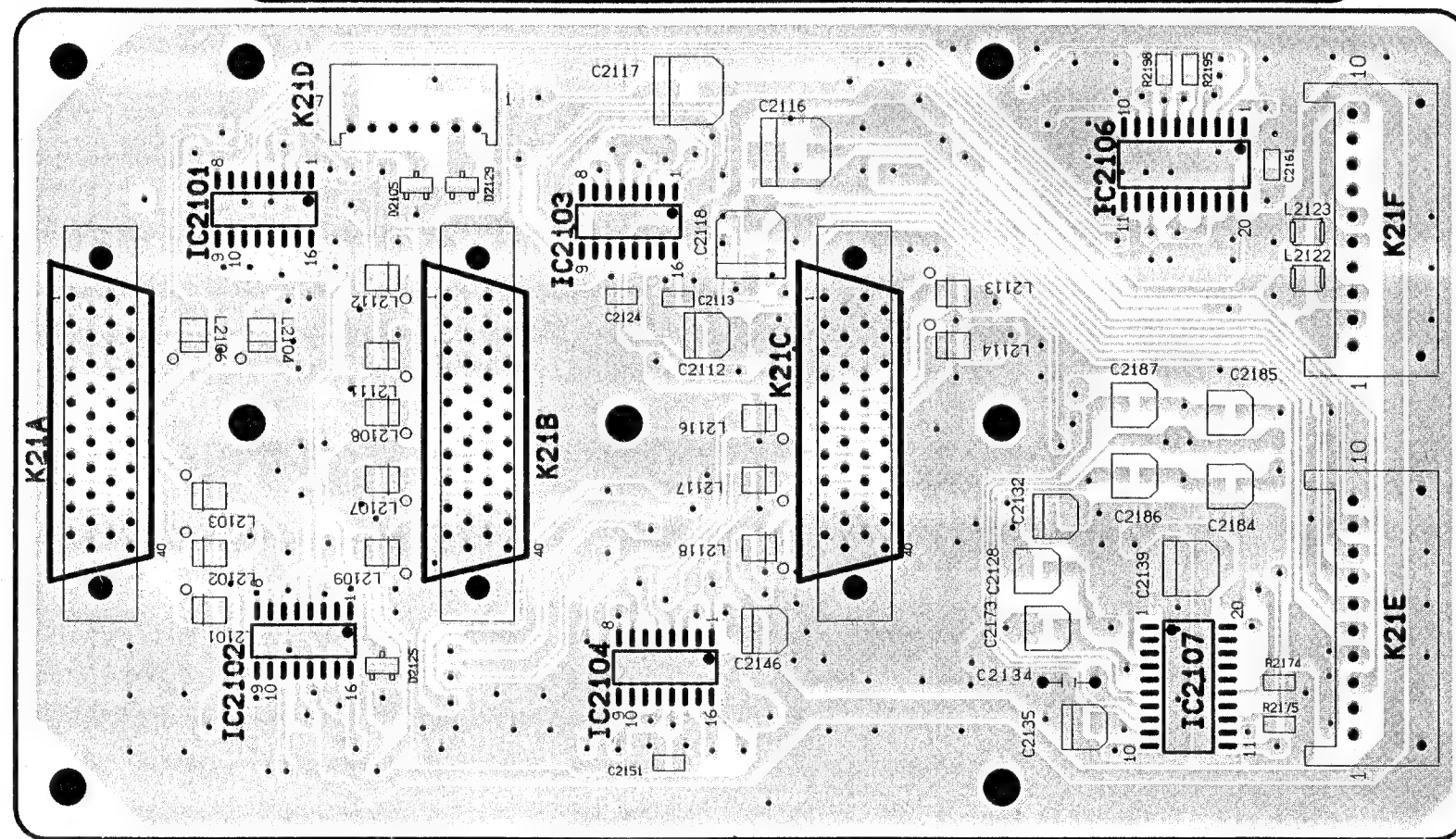
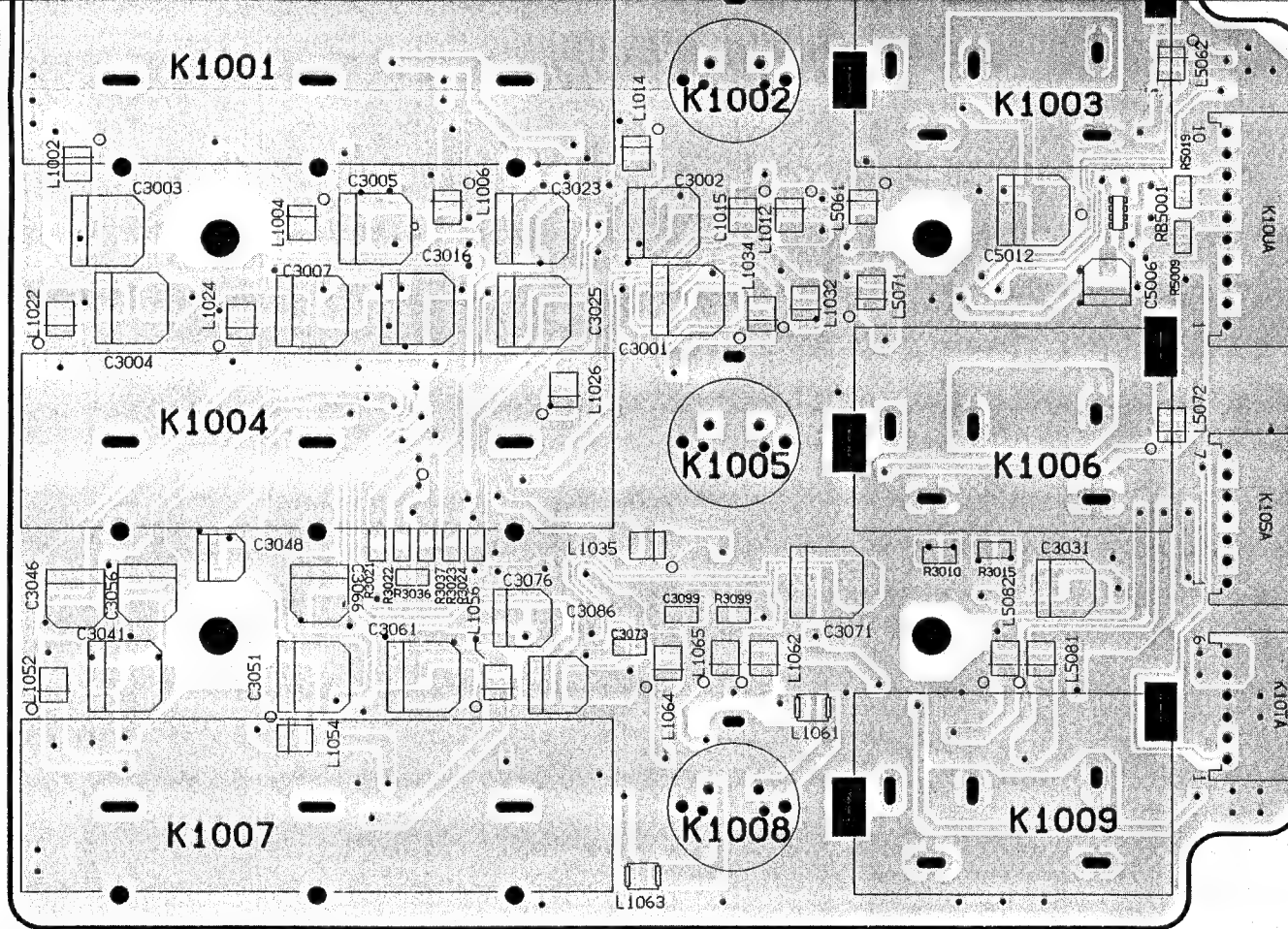






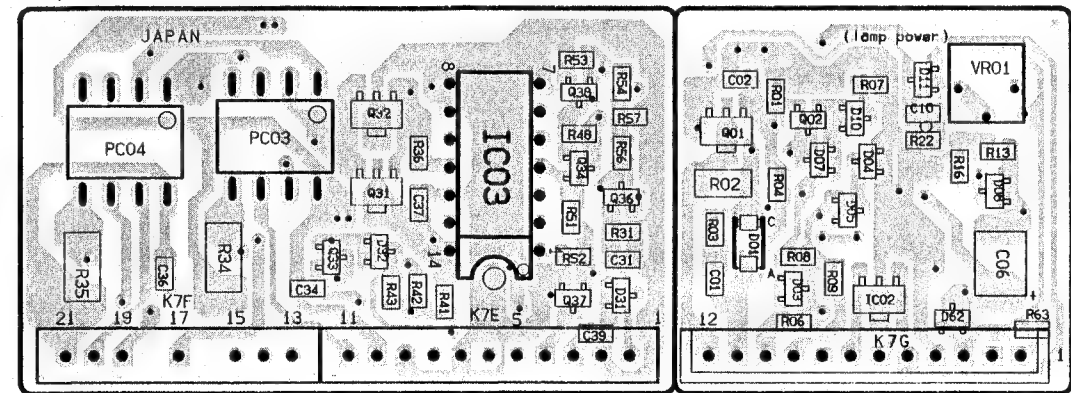


# VIDEO BOARD AV JACK BOARD A SIDE



## CG BOARD A SIDE

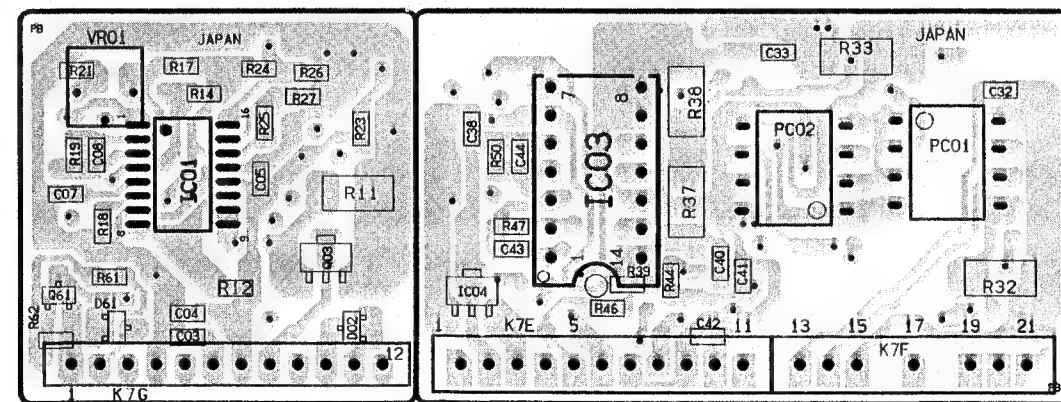
## COMPONENT (A)SIDE HIC-A HIC-B



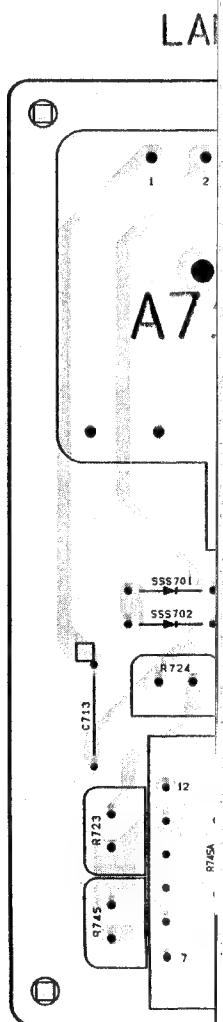
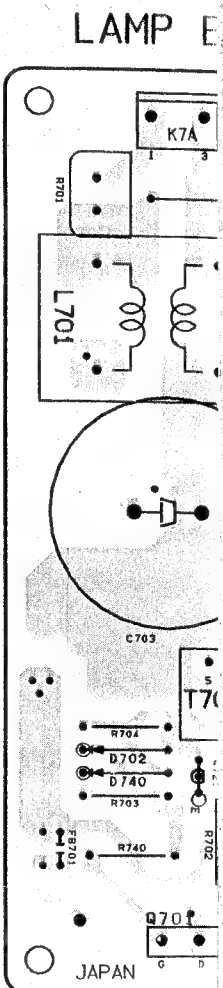
1AA4B10C13100 98E

## B SIDE

## HIC-B HIC-A

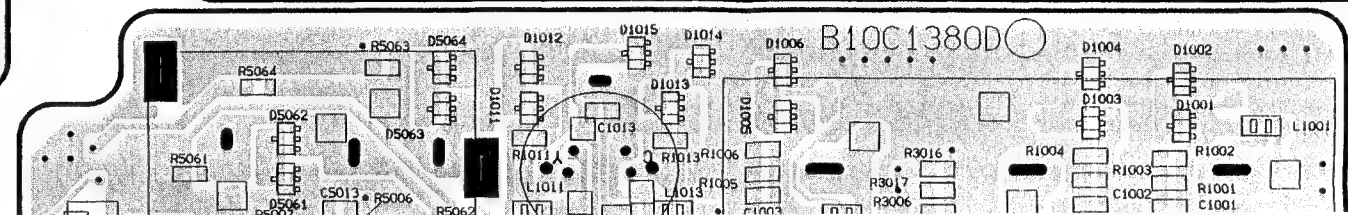
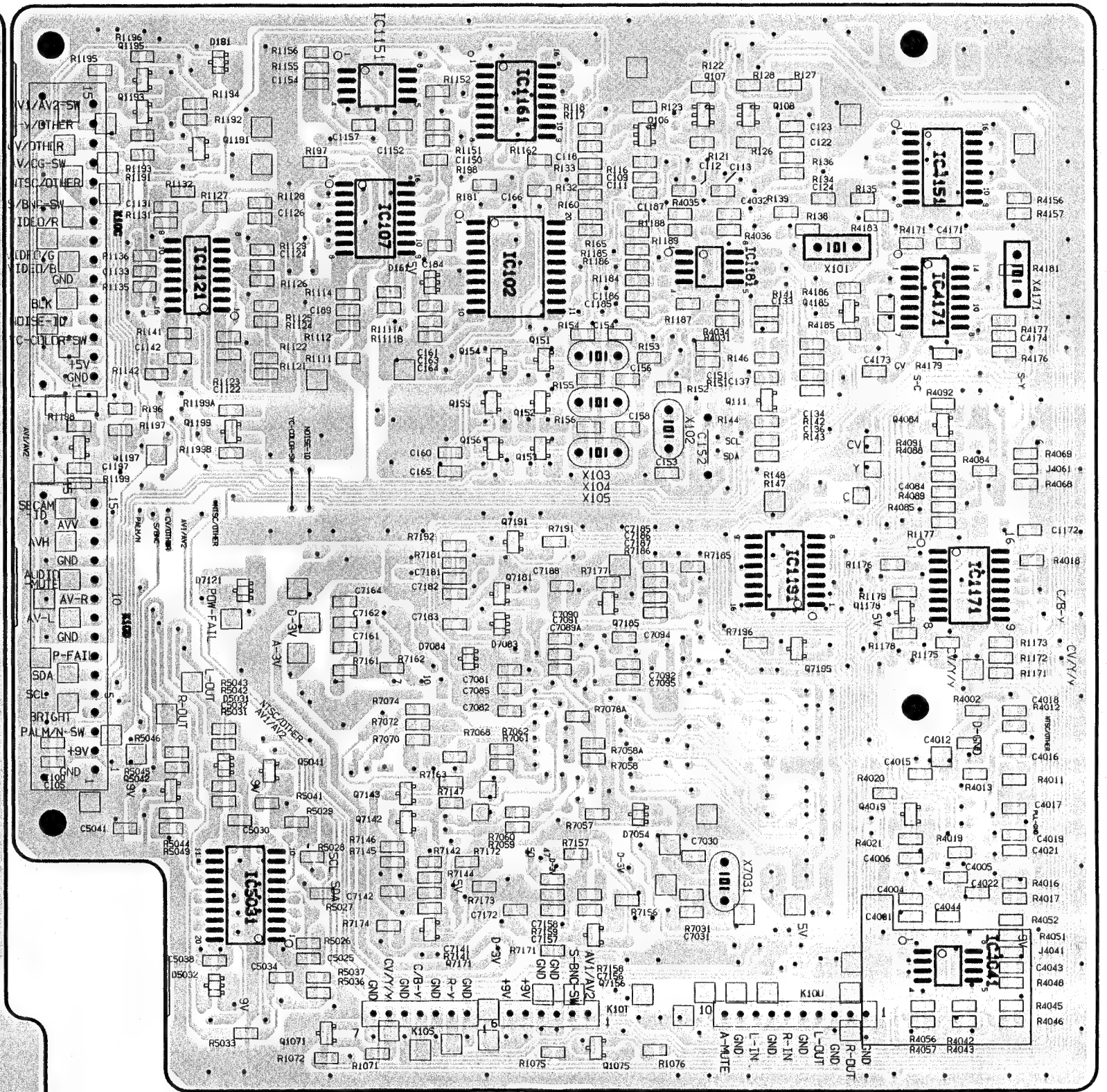


1AA4B10C13100 98E





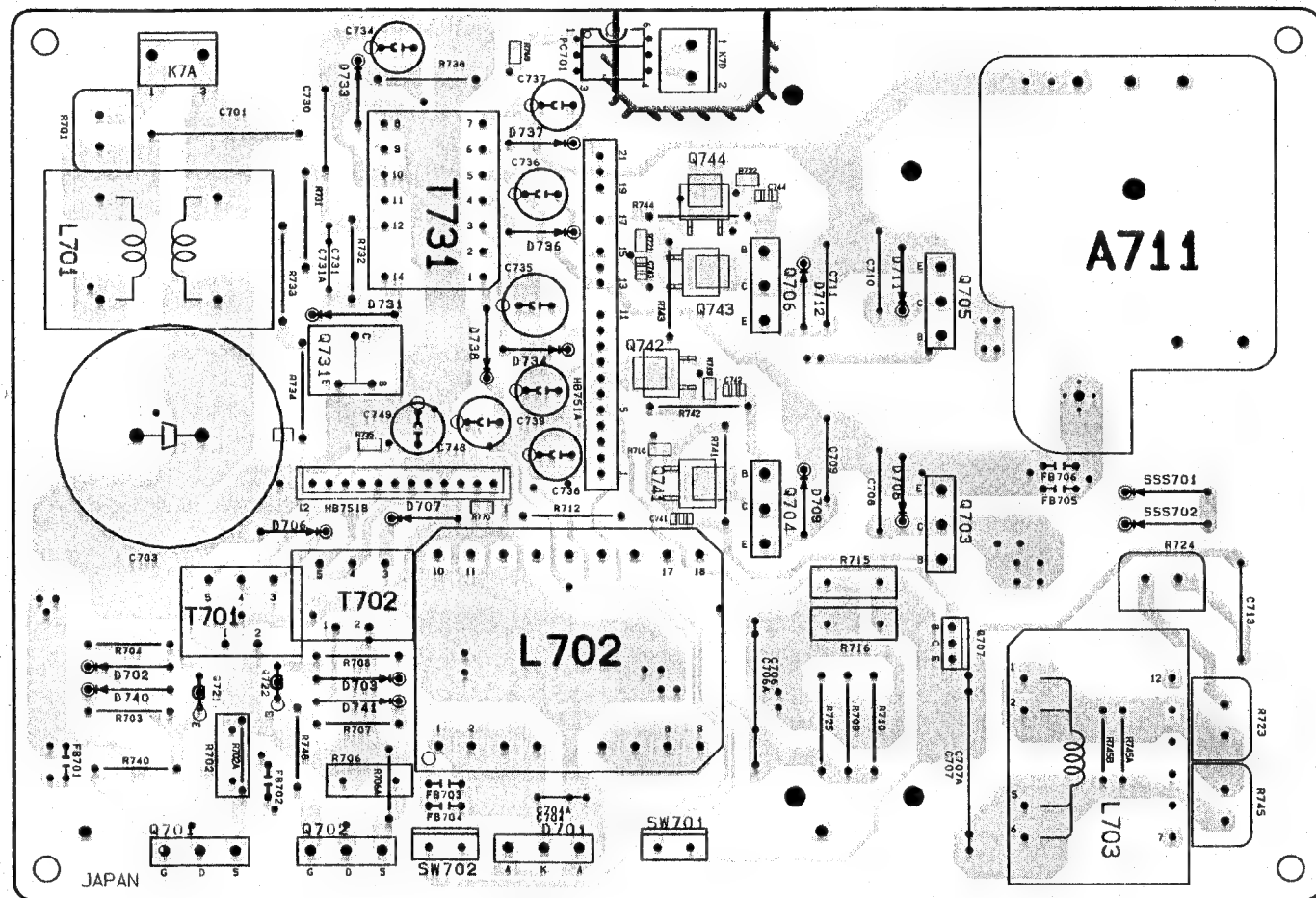
## VIDEO BOARD



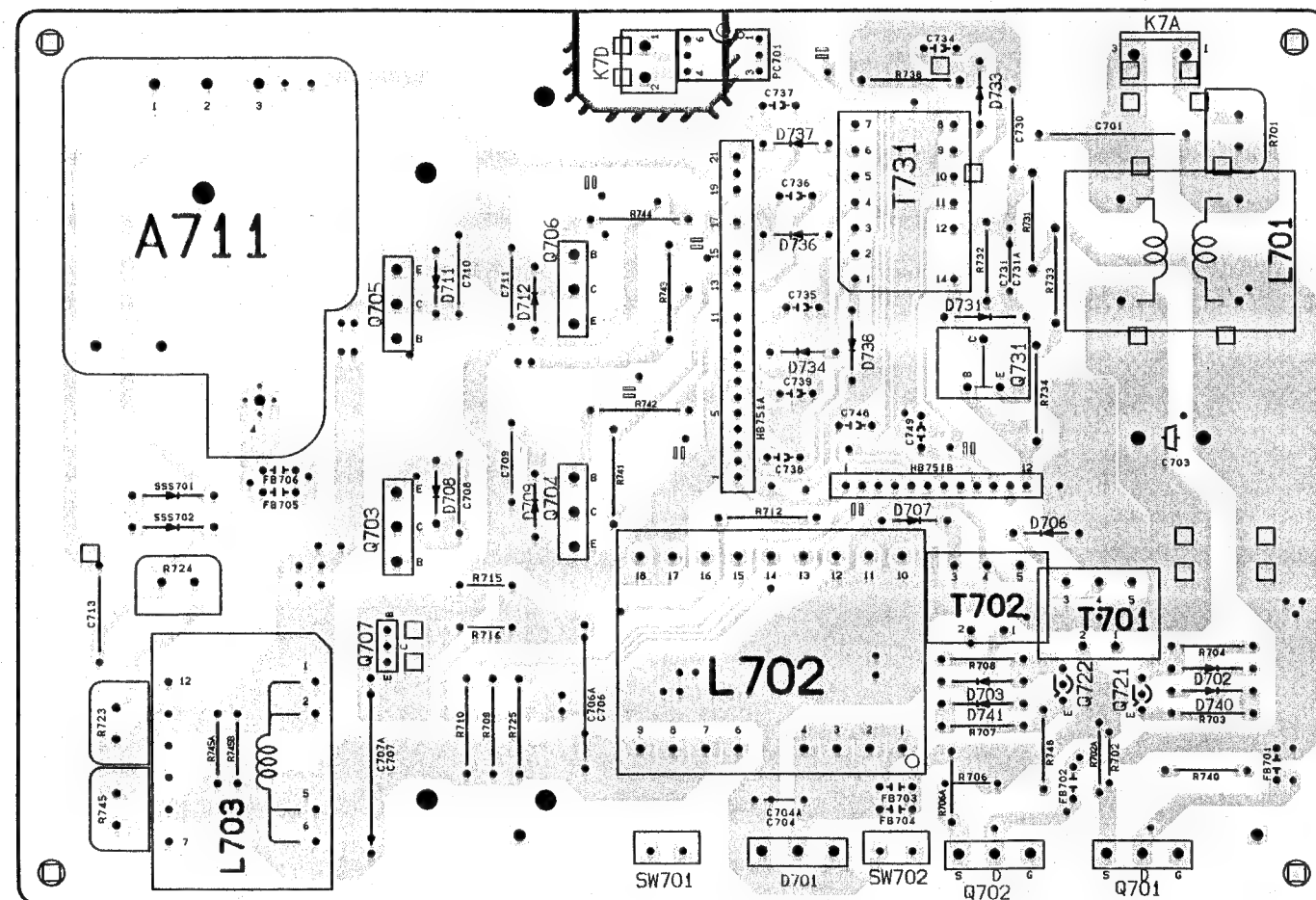
LAMP BALLAST BOARD      COMPONENT (A)SIDE



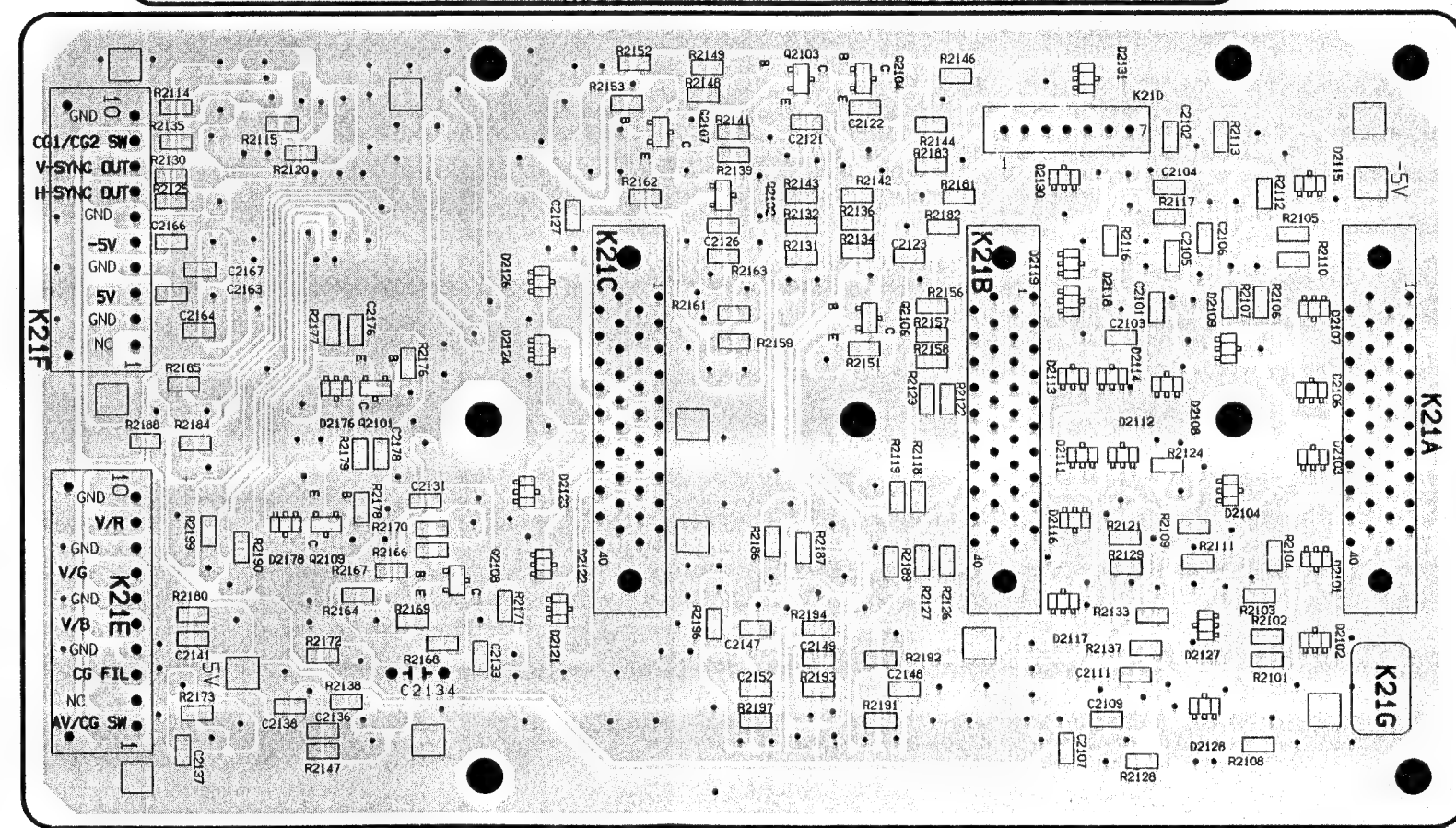
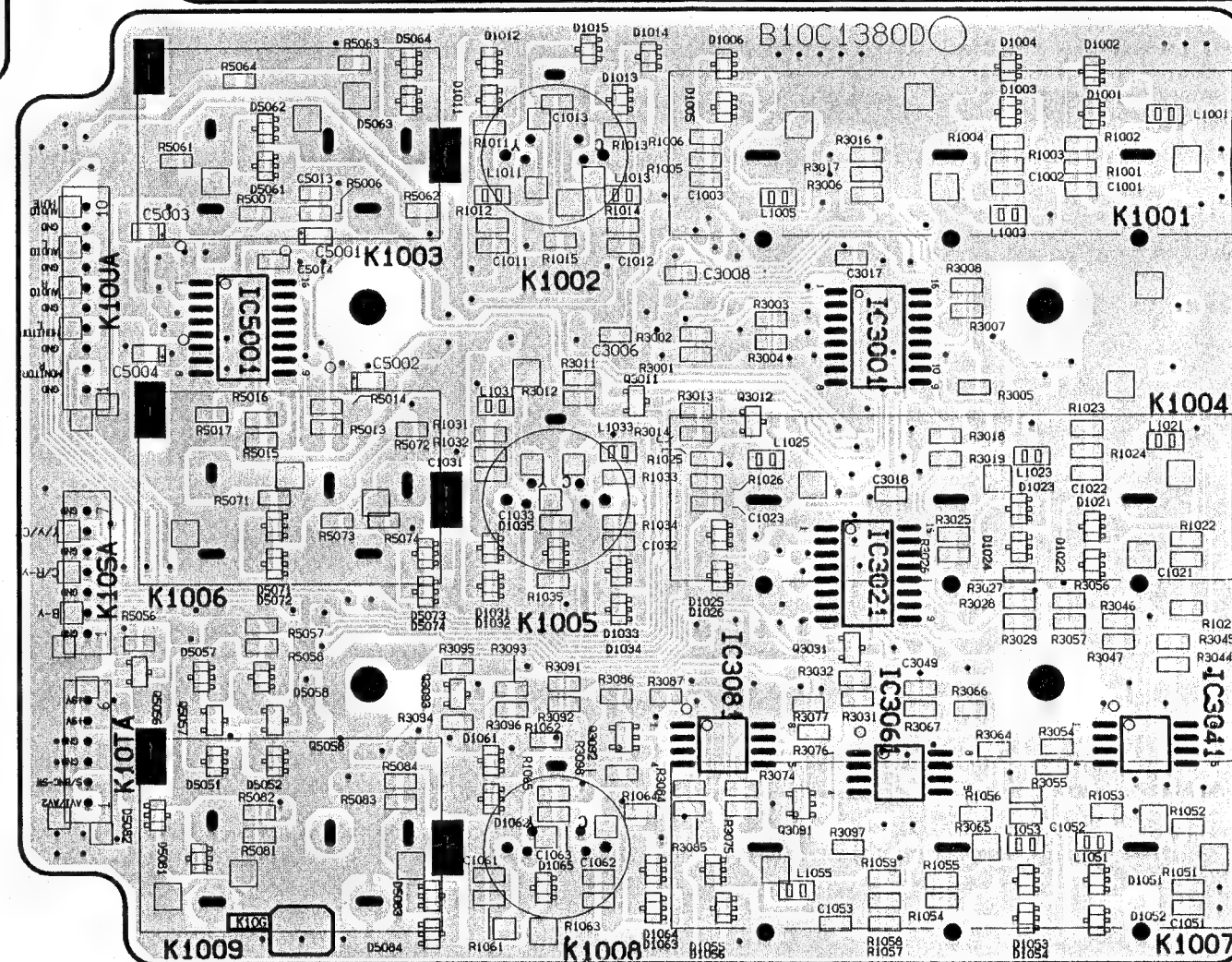
LAMP BALLAST BOARD COMPONENT (A)SIDE



LAMP BALLAST BOARD B SIDE



1AA4810C13000 A

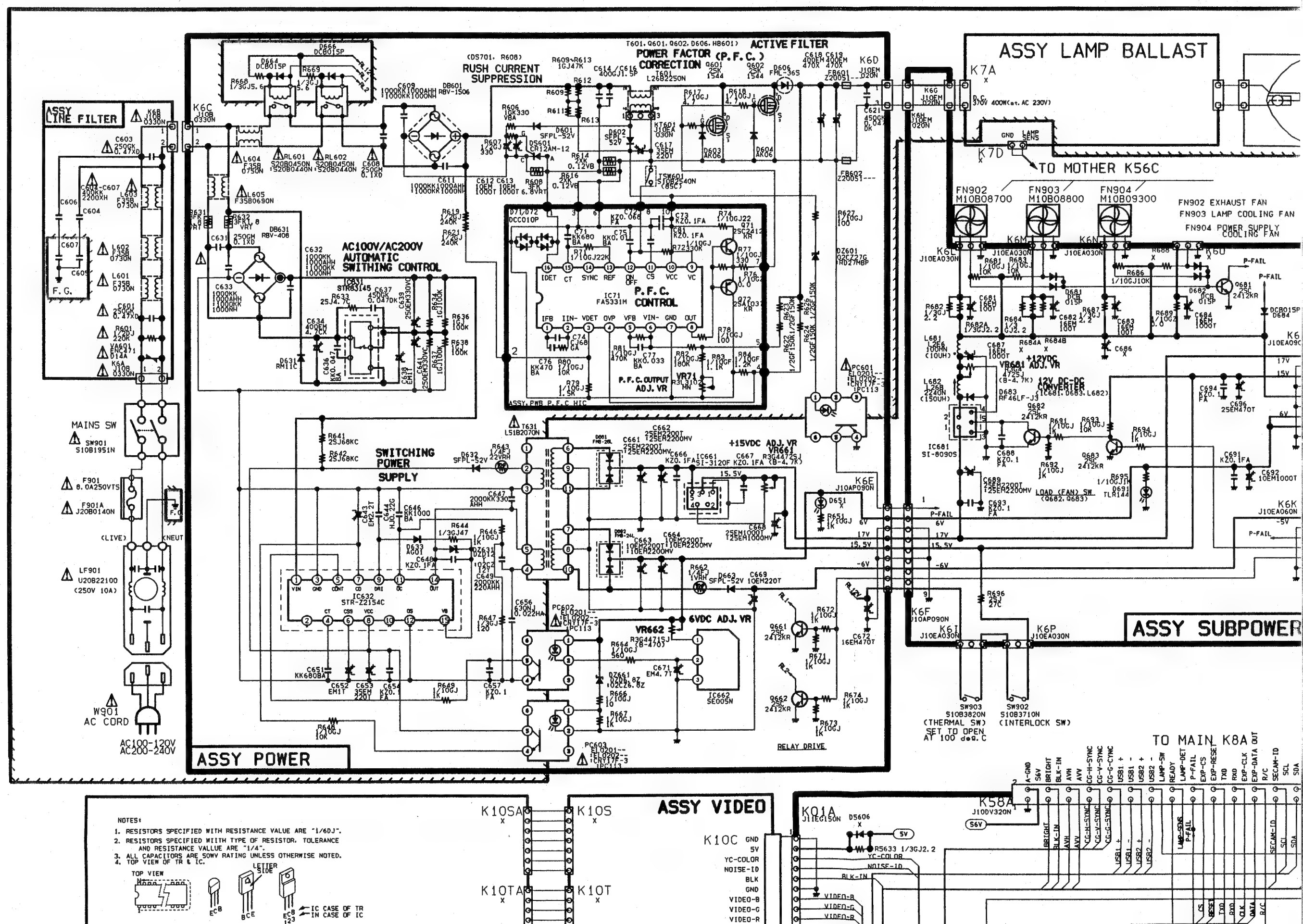


B SIDE

CG BOARD



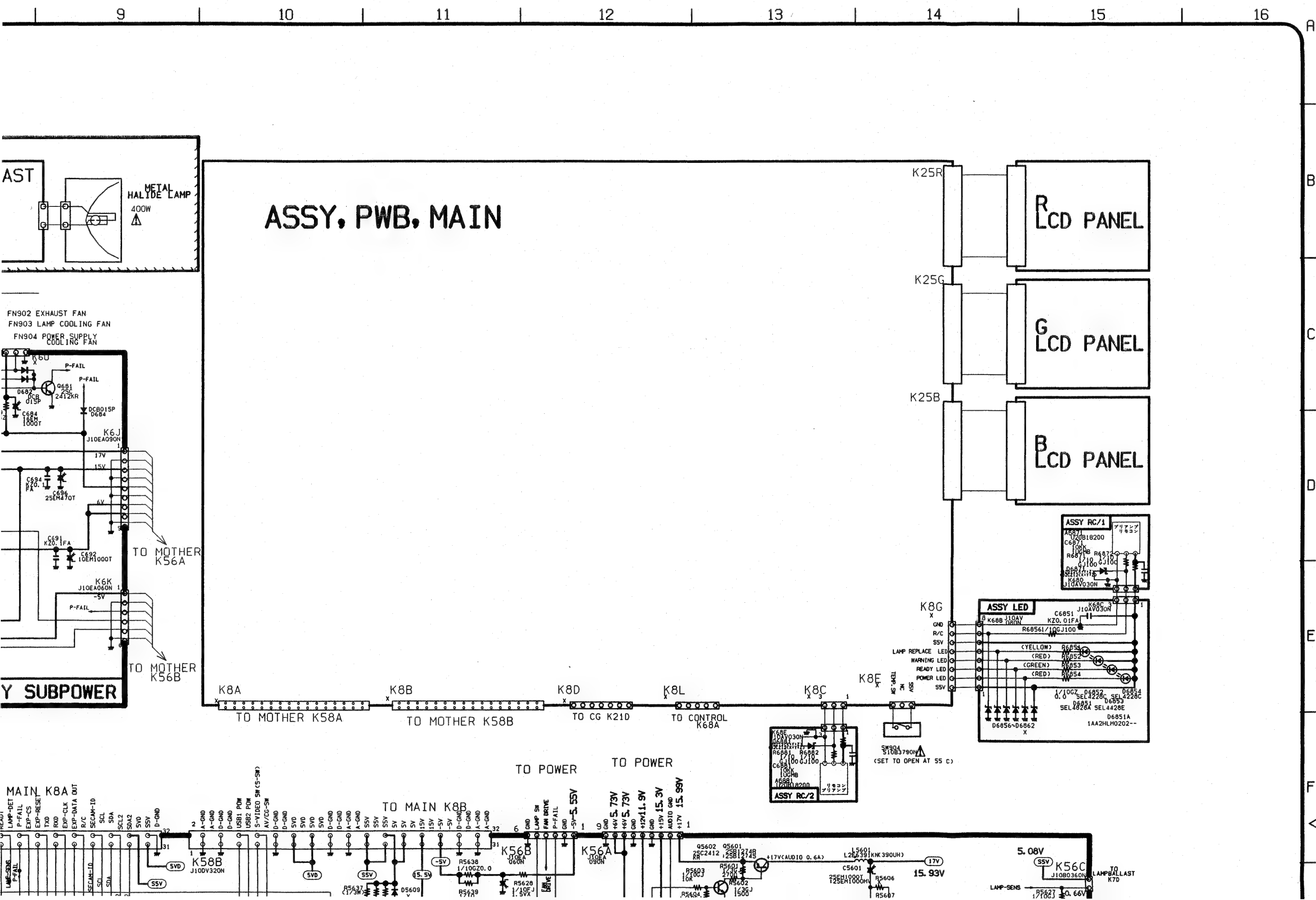
ASSY POWER  
ASSY MOTHER

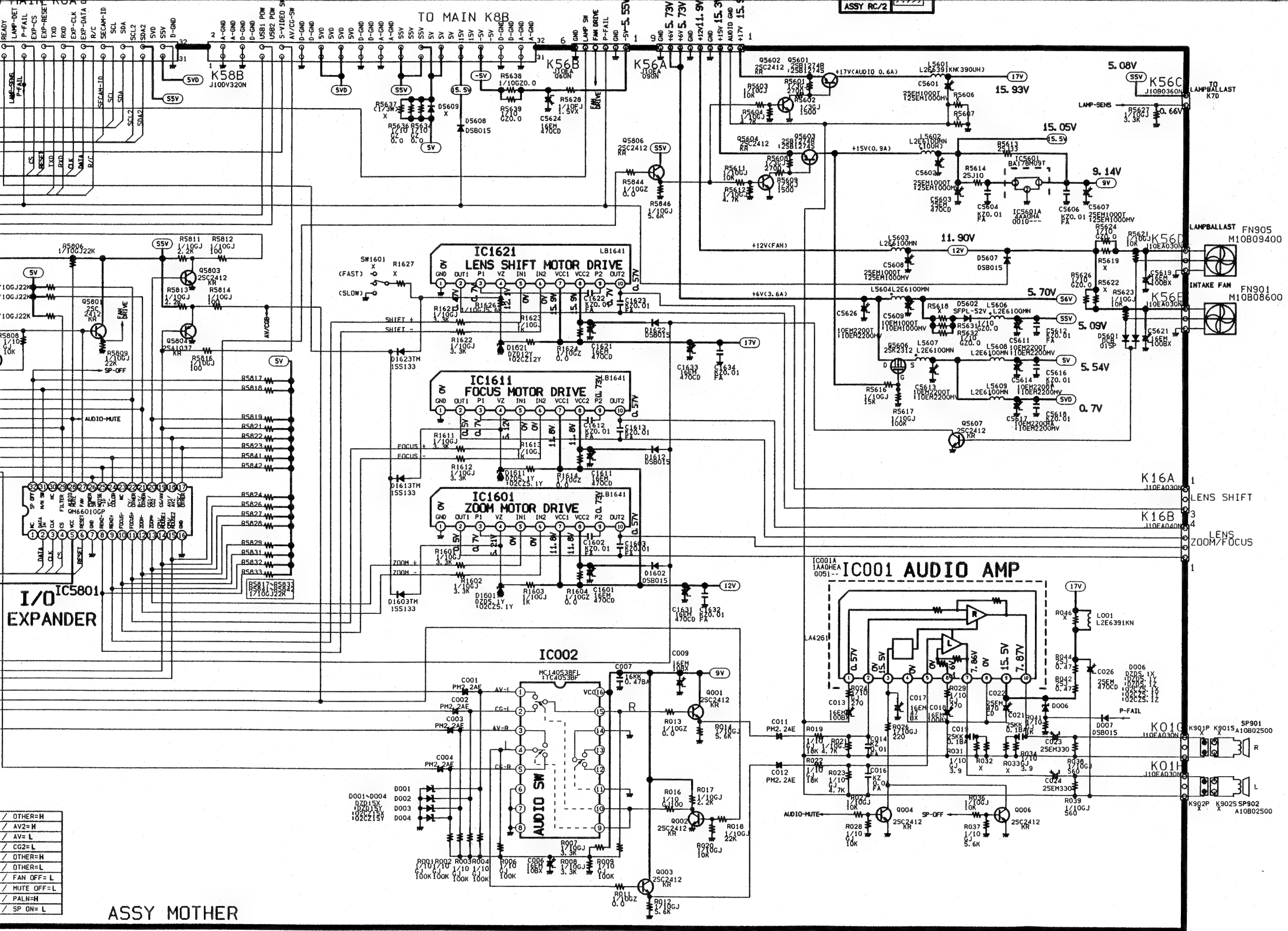


COLD SIDE        HOT SIDE

- 131 -







ASSY AV JACK  
ASSY INTERFACE

# COMPUTER AUDIO

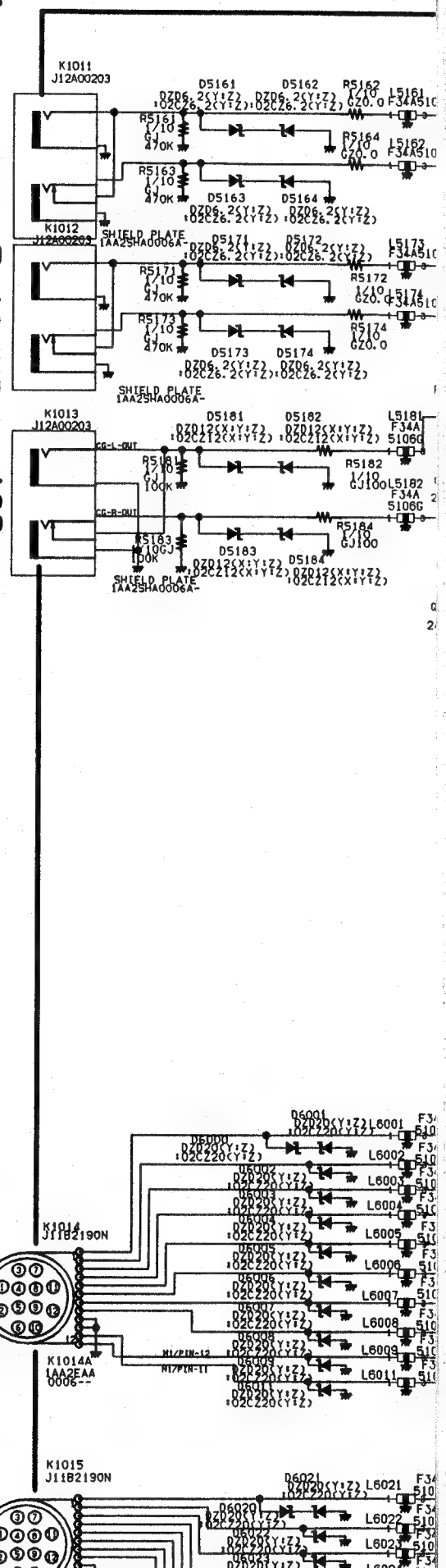
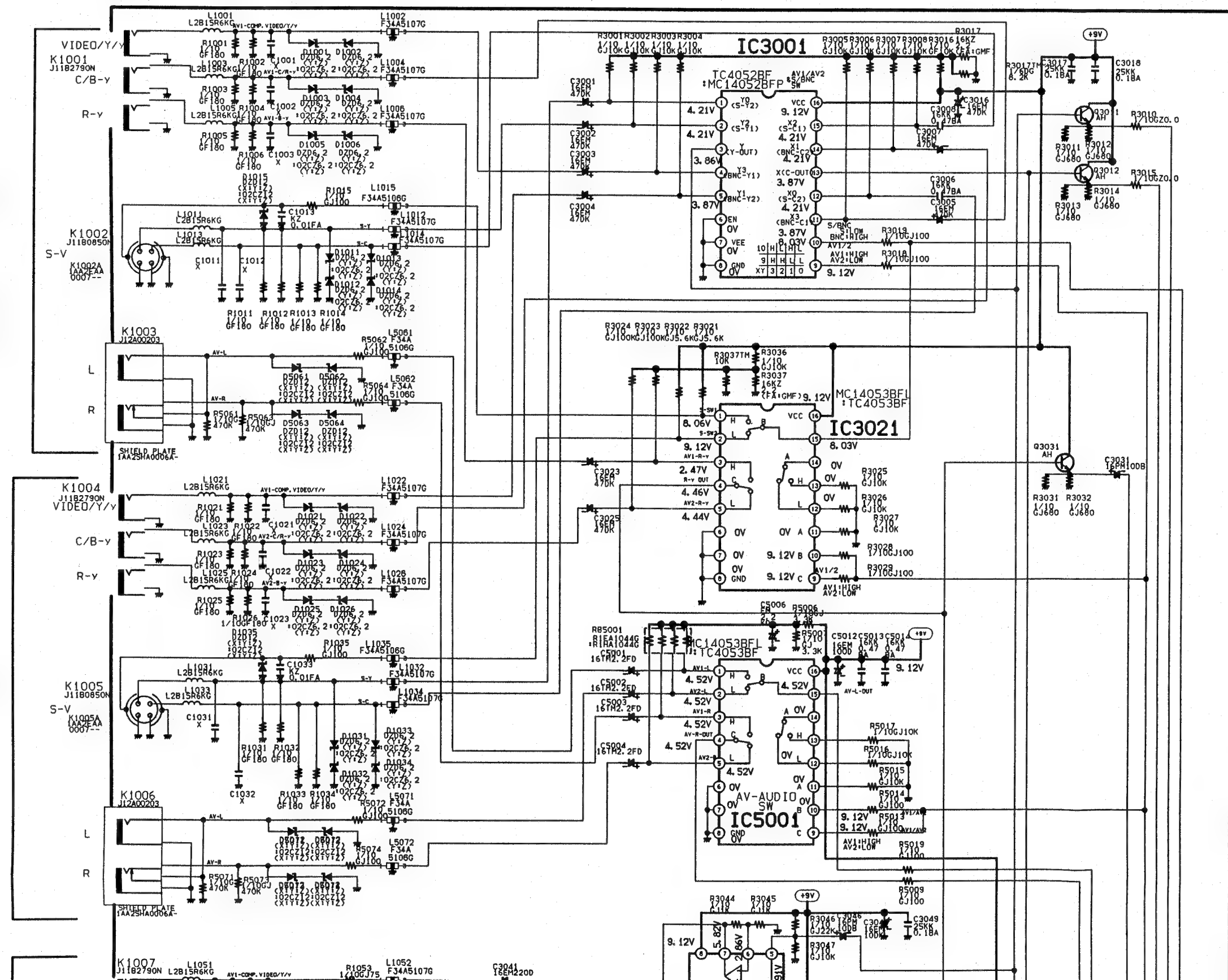
# VIDEO INPUT 1

# VIDEO INPUT 2

MONITOR  
OUT

**CONTROL  
PORT-1**

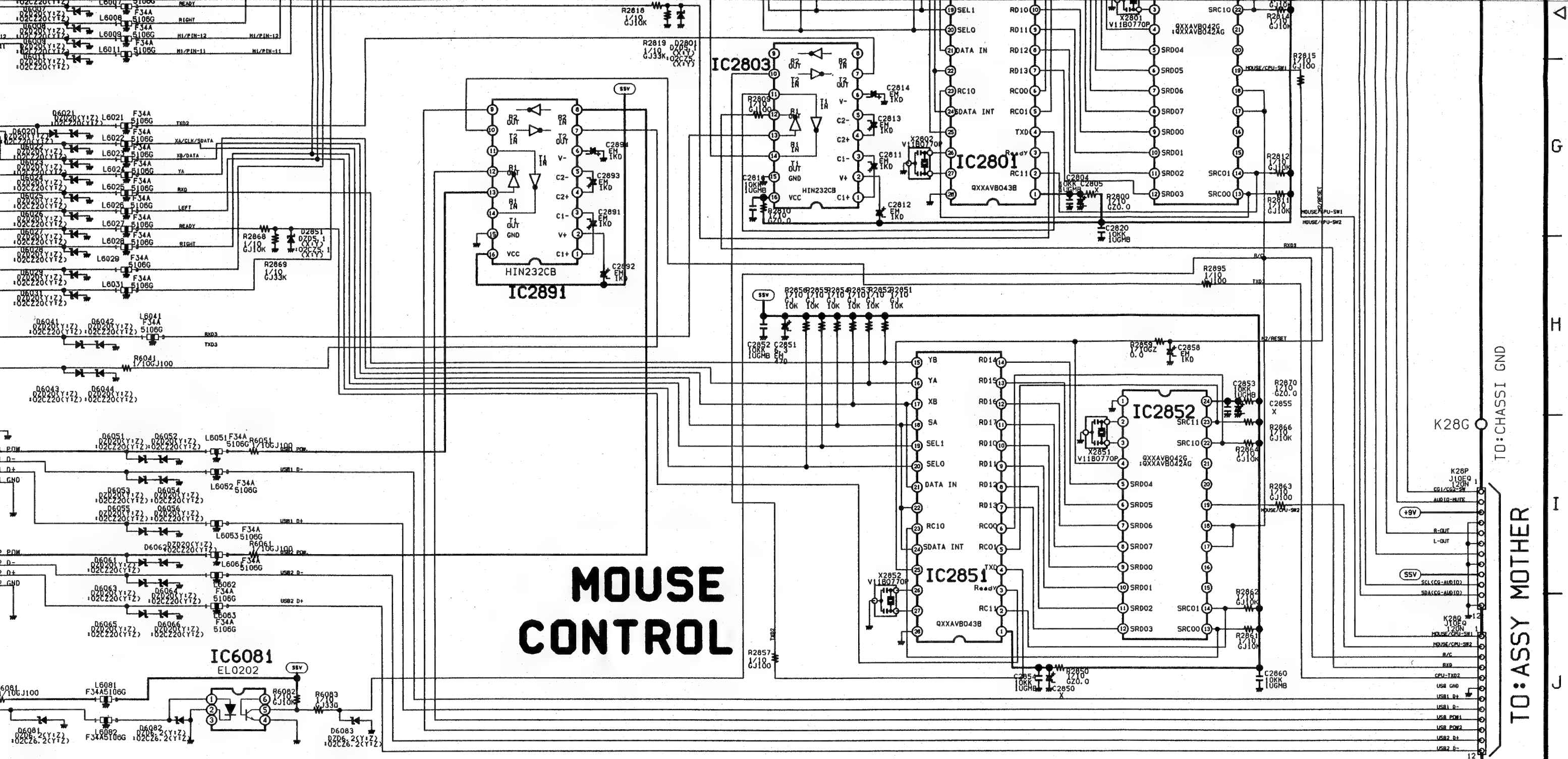
**CONTROL**  
**BT-2**









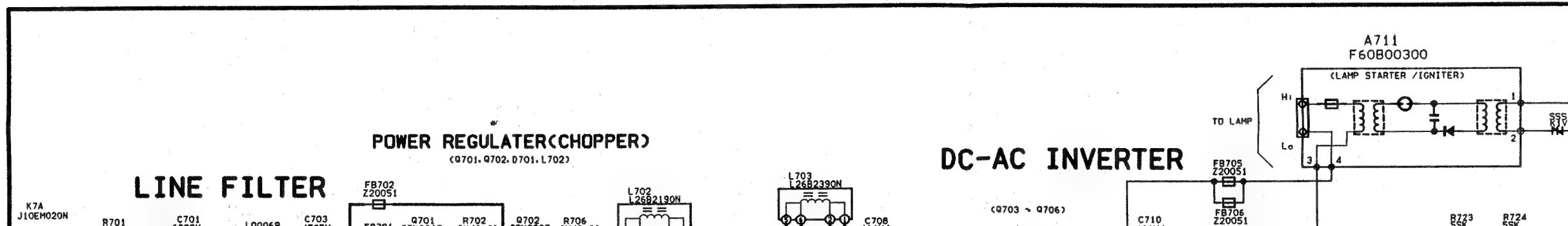
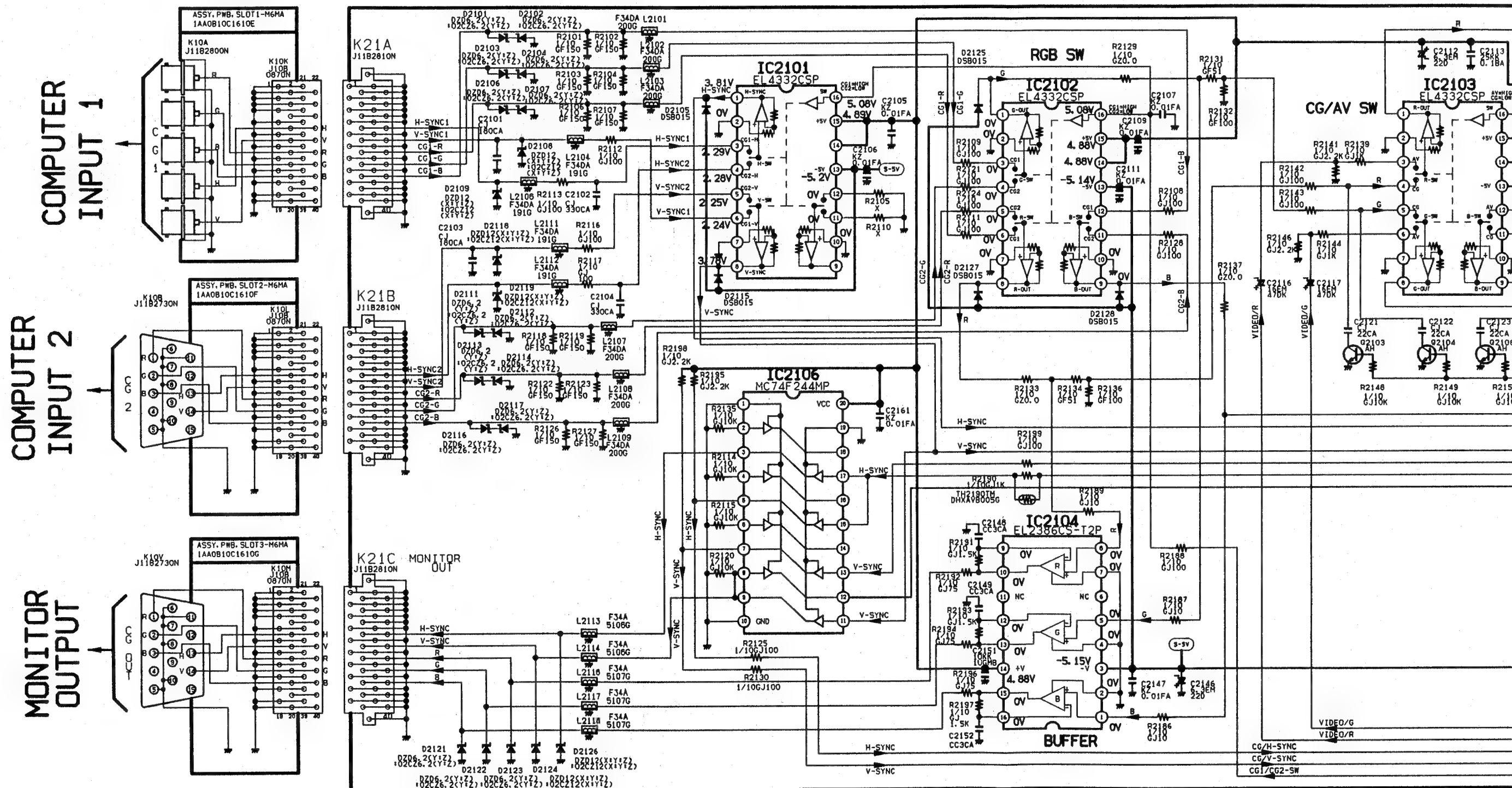


RED REMOTE INPUT  
B PORT-2  
B PORT-1  
ASSY VIDEO

# S3

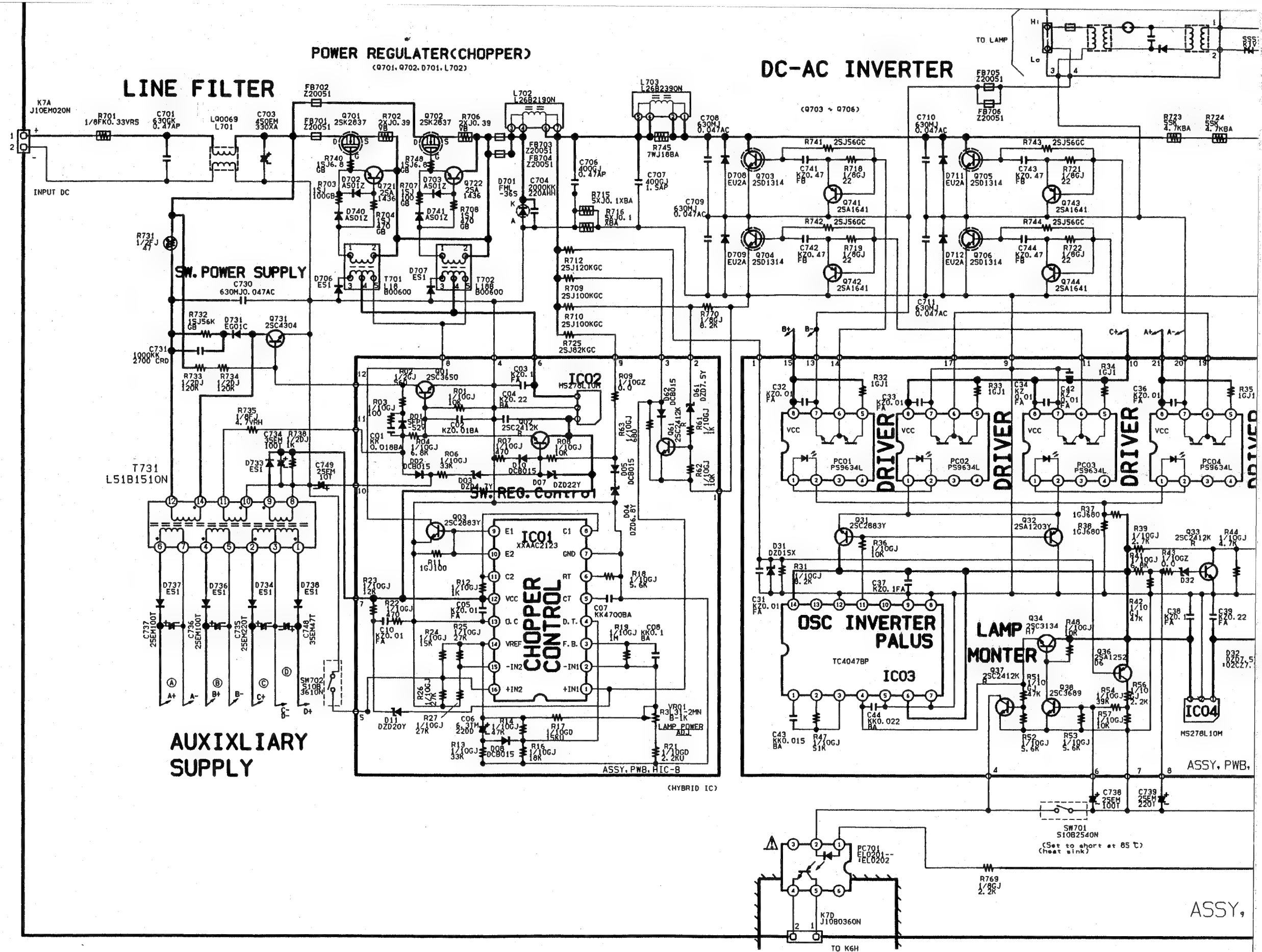
## ASSY CG ASSY LAMP BALLAST

⑤ PLC-9000/9000E/9005E/9005B REVISED  
Reference. NO. SM525052



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A

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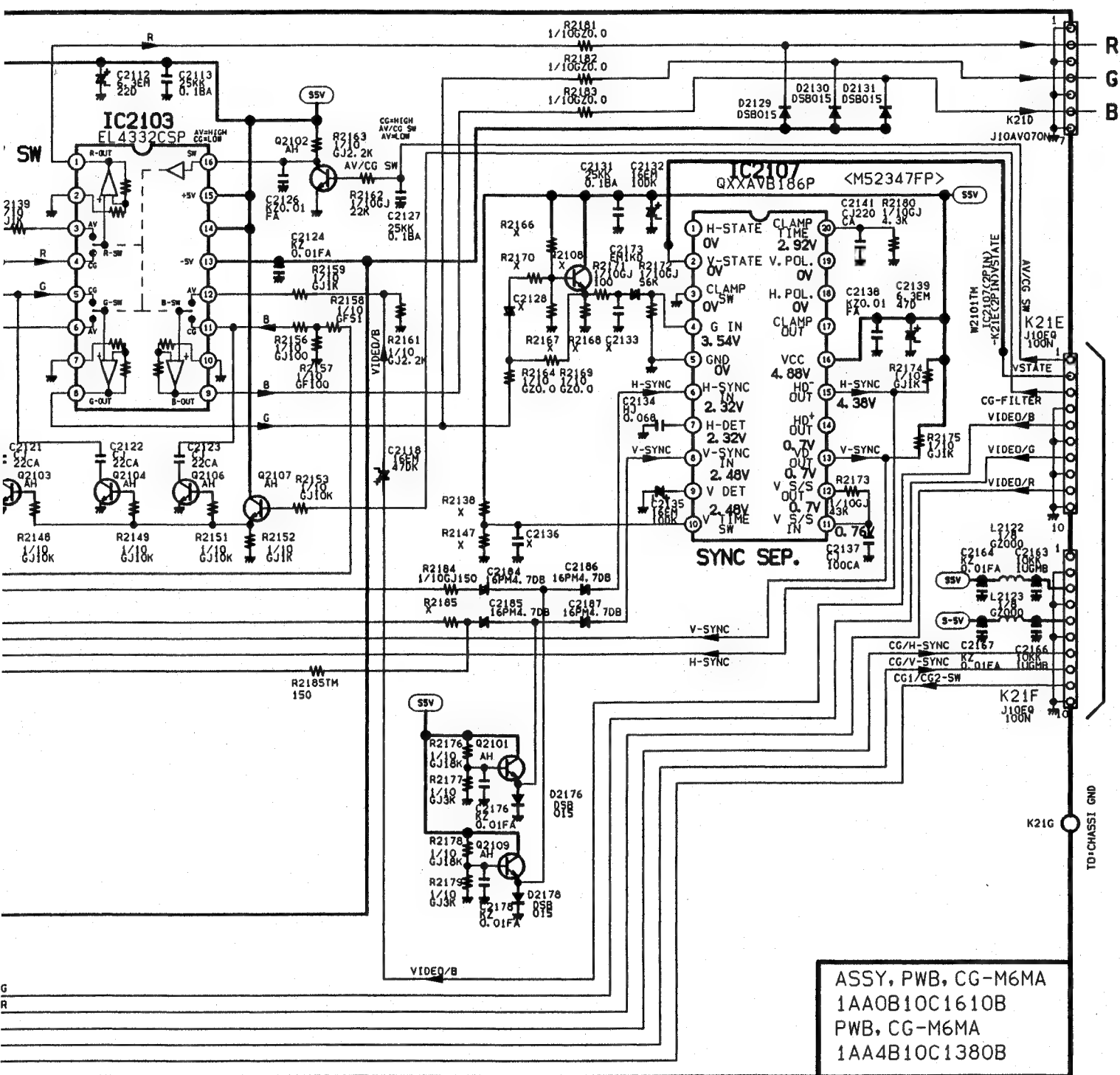
C

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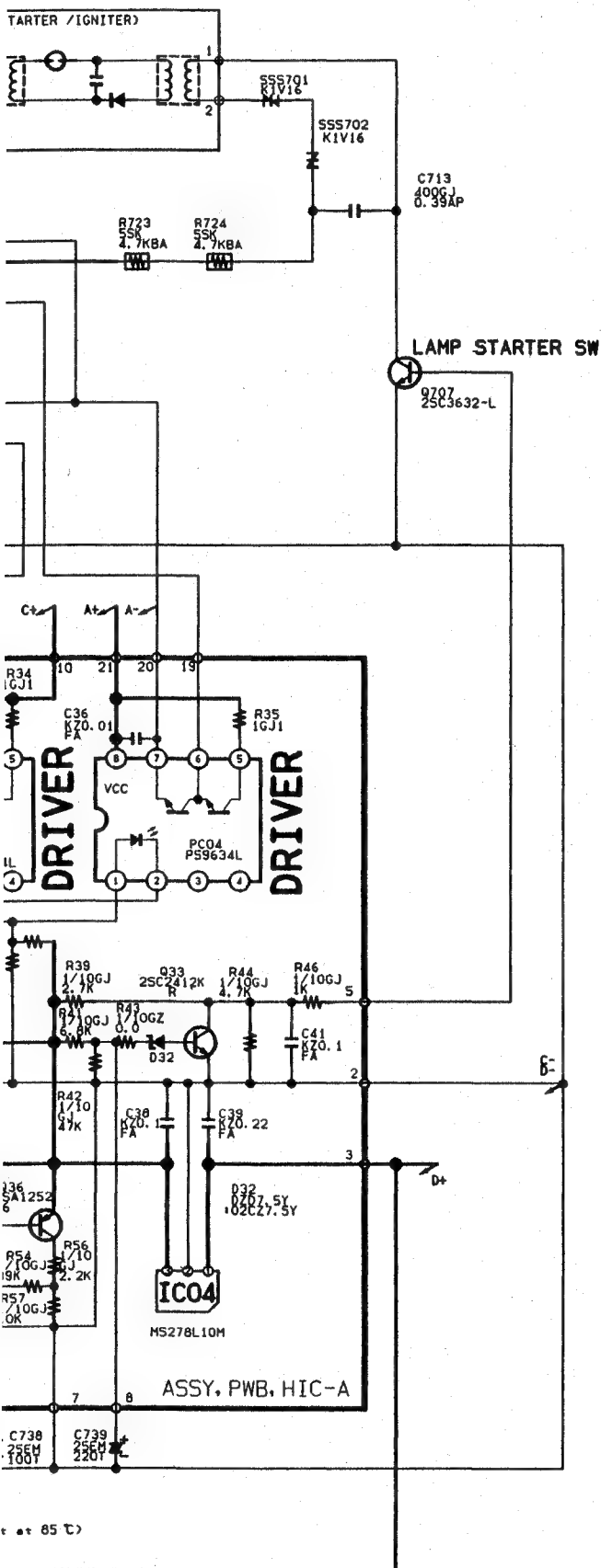
△

711  
B00300

(ARTER /IGNITER)



711  
DB00300



ASSY, PWB, LAMP BALLAST







IC1191

SYNC\_SEP.  
IC4171

ASSY VIDEO

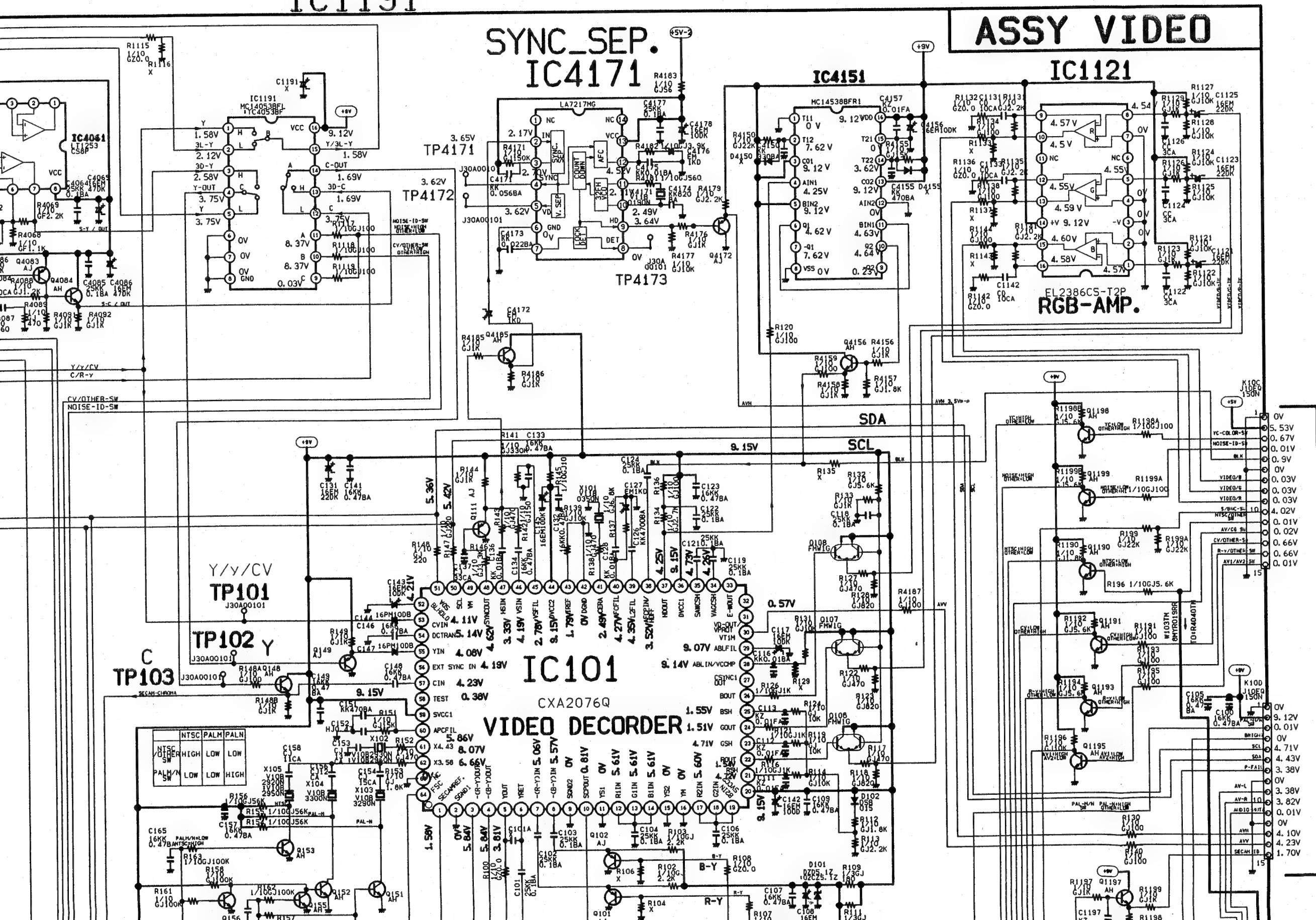
IC1121

RGB-AMP.

IC101

VIDEO DECODER

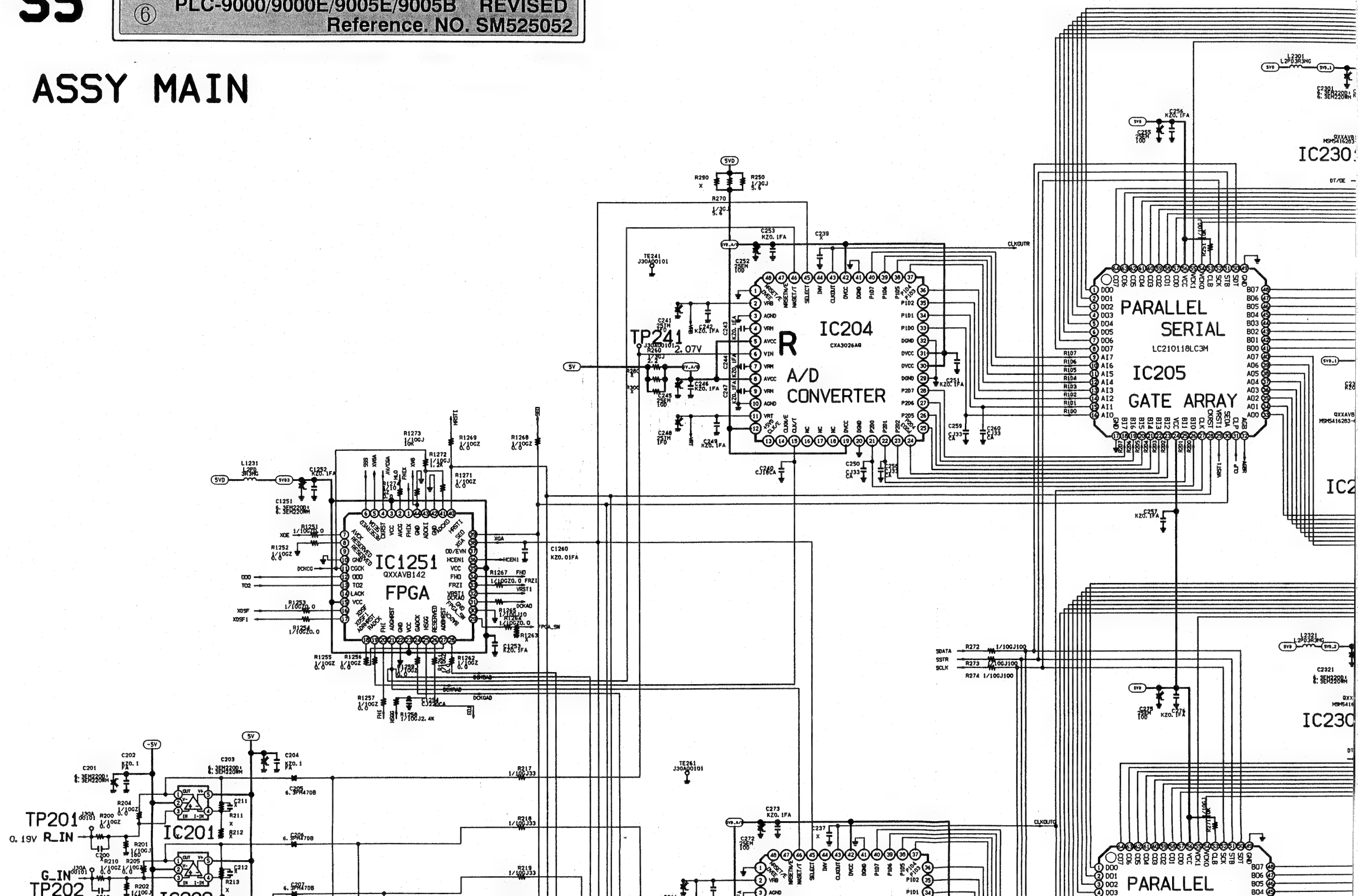
TO: ASSY MOTHER





**PLC-9000/9000E/9005E/9005B    REVISED**  
**Reference. NO. SM525052**

## F





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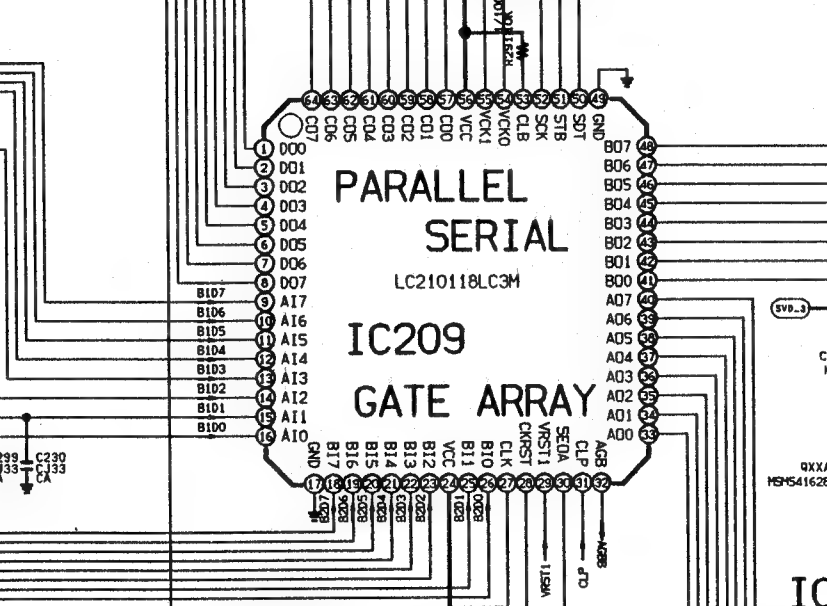
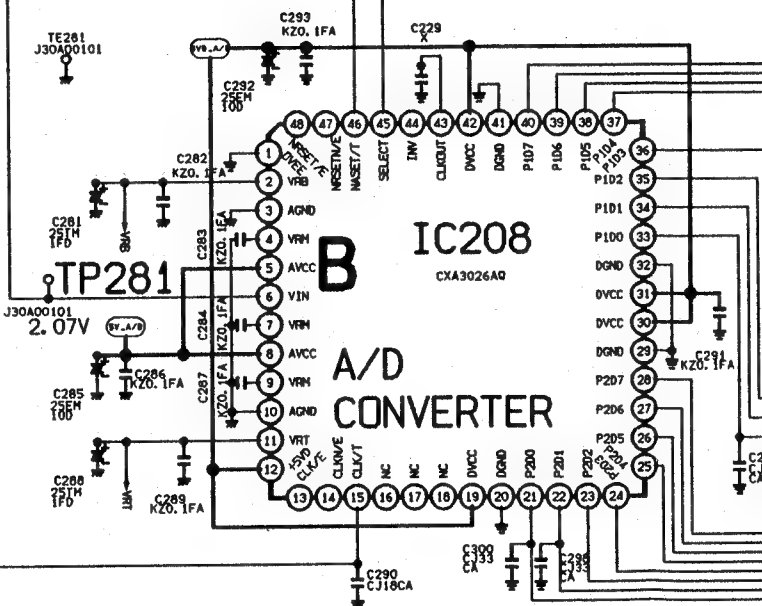
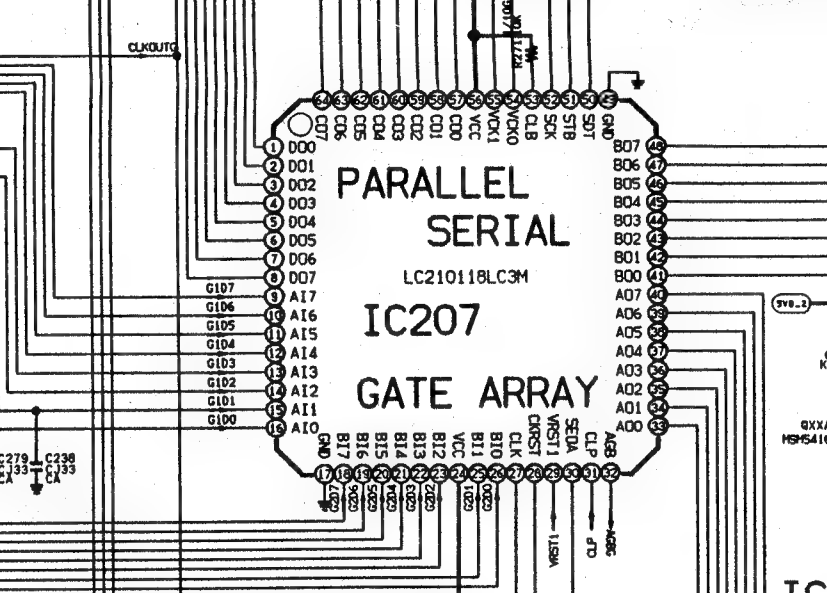
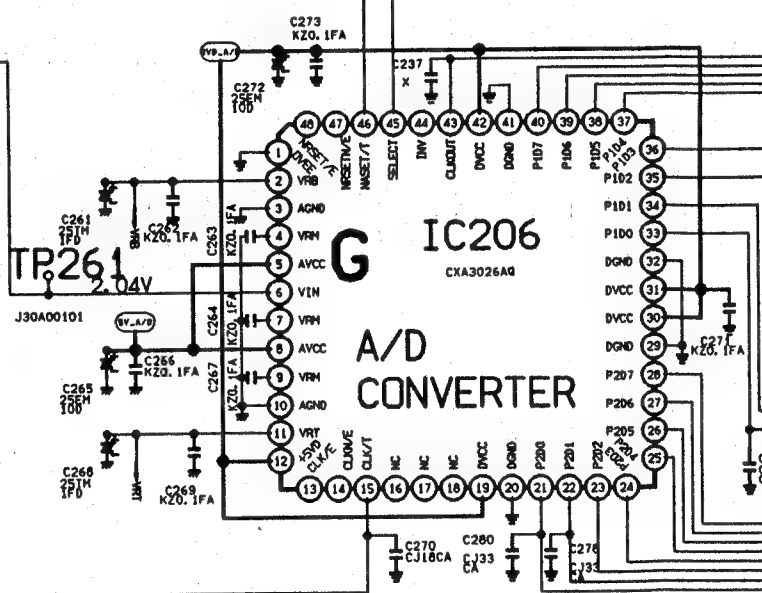
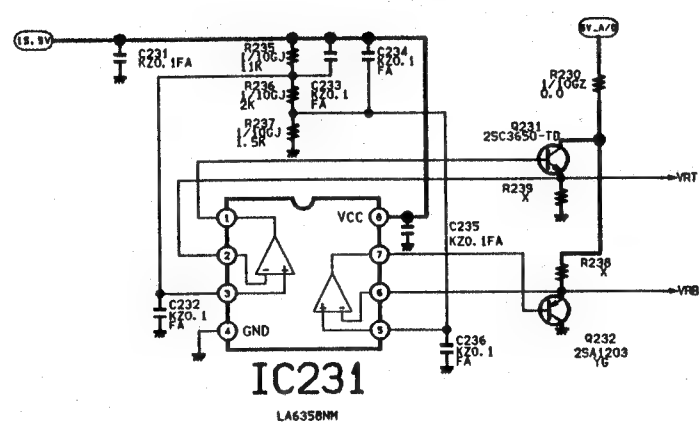
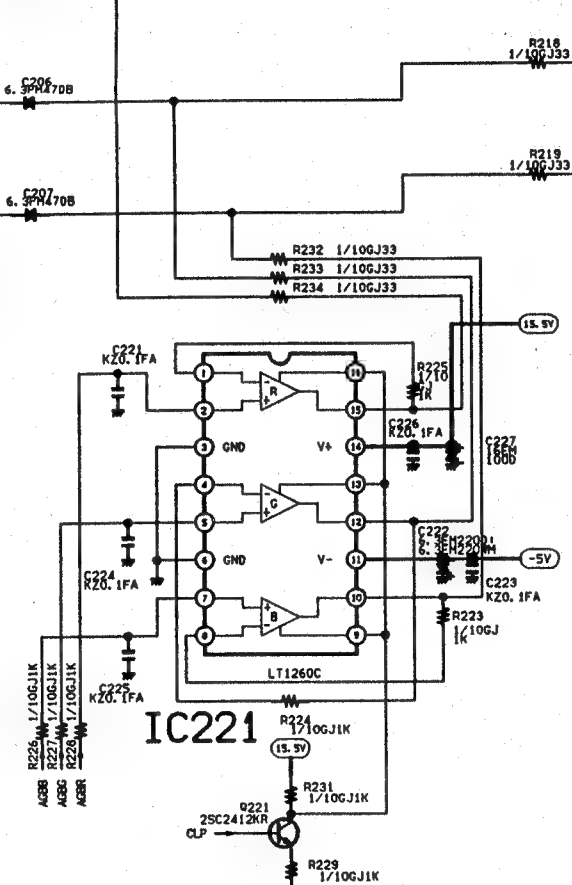
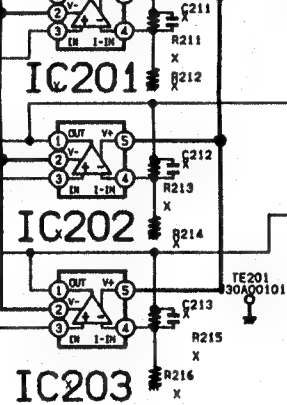
K

L

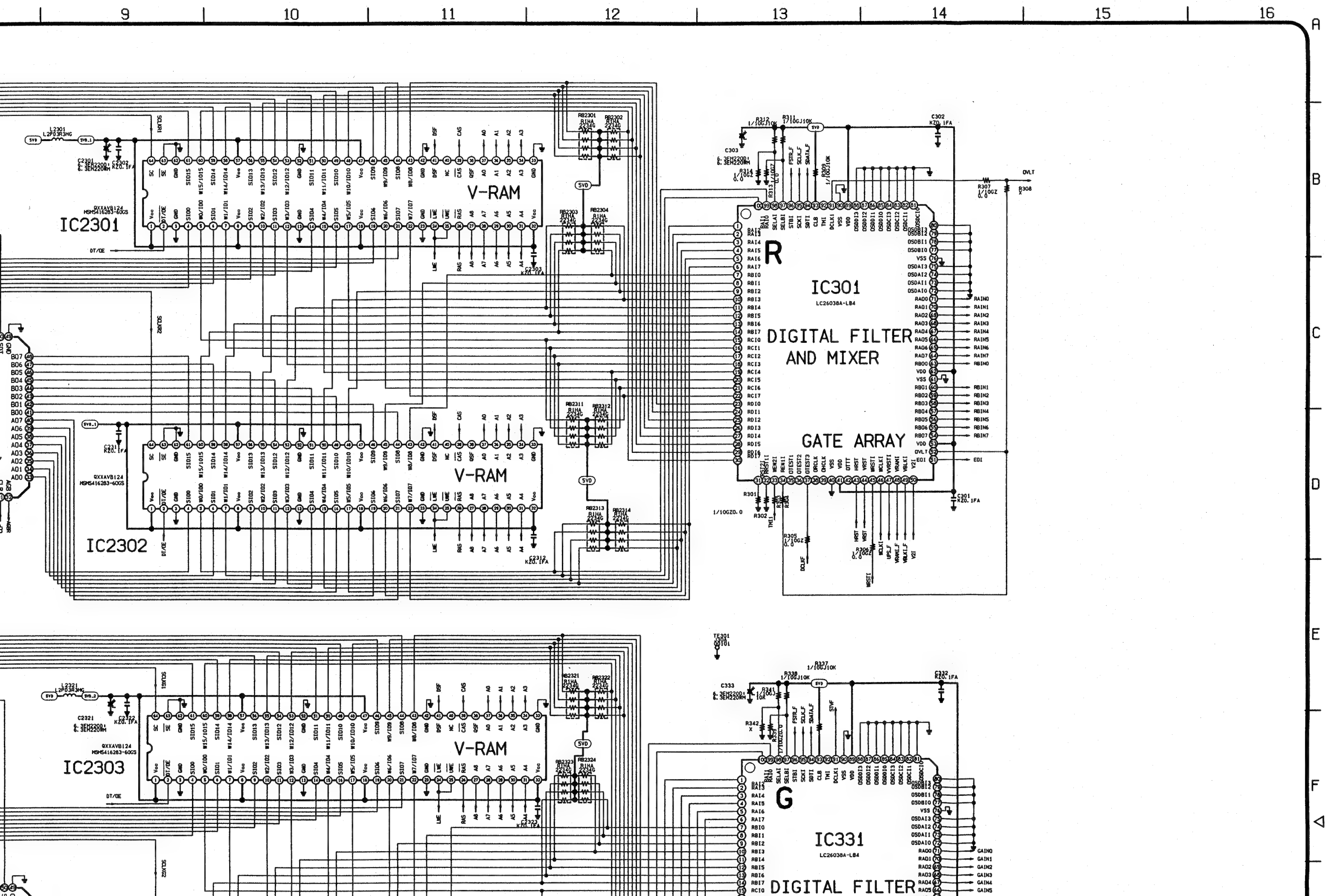
TP201  
0.19V  
R<sub>IN</sub>

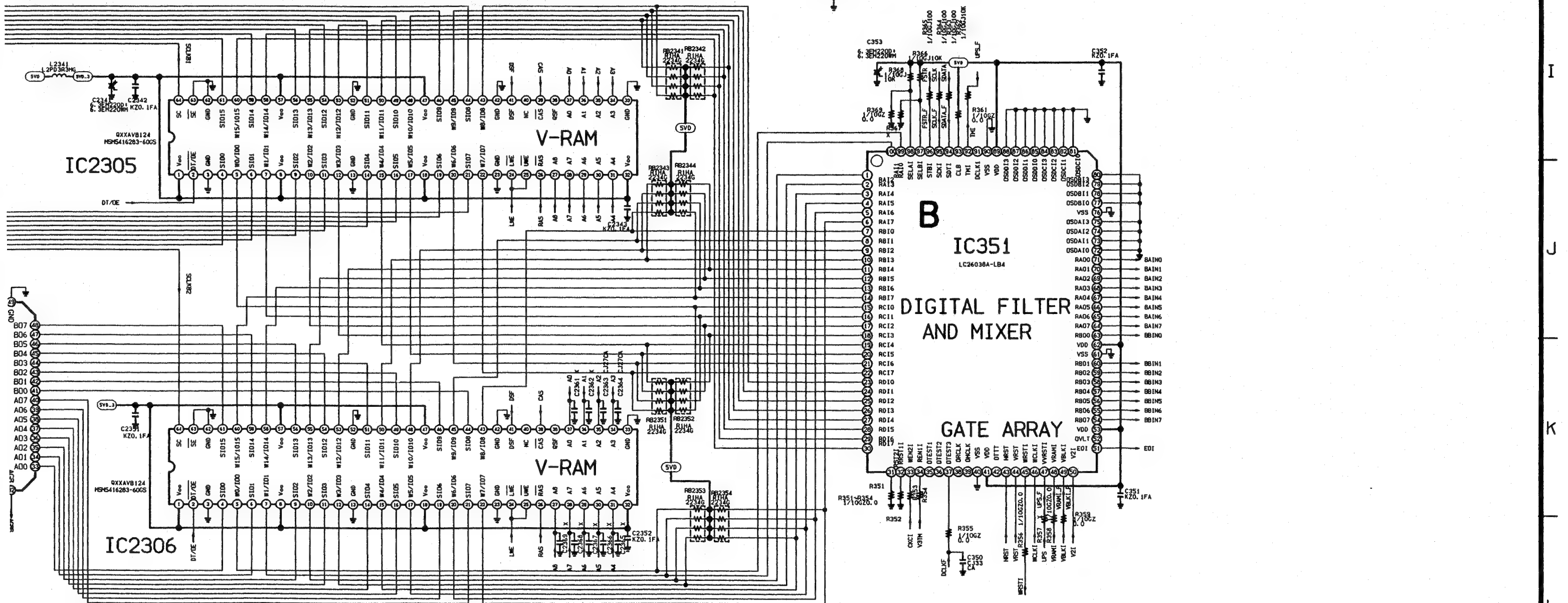
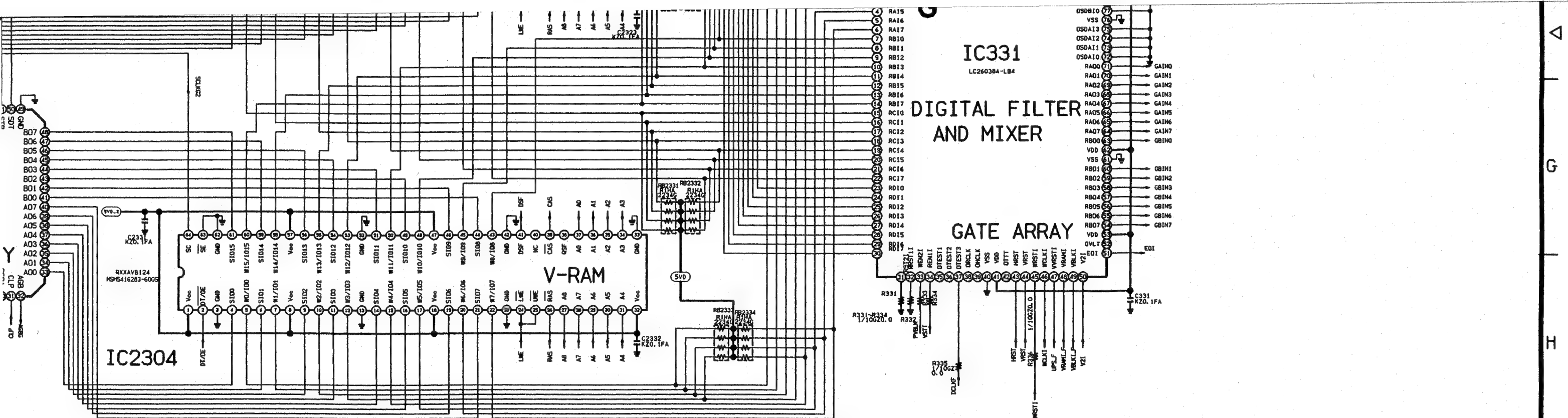
G<sub>IN</sub>  
TP202  
0.17V

B<sub>IN</sub>  
TP203  
0.16V

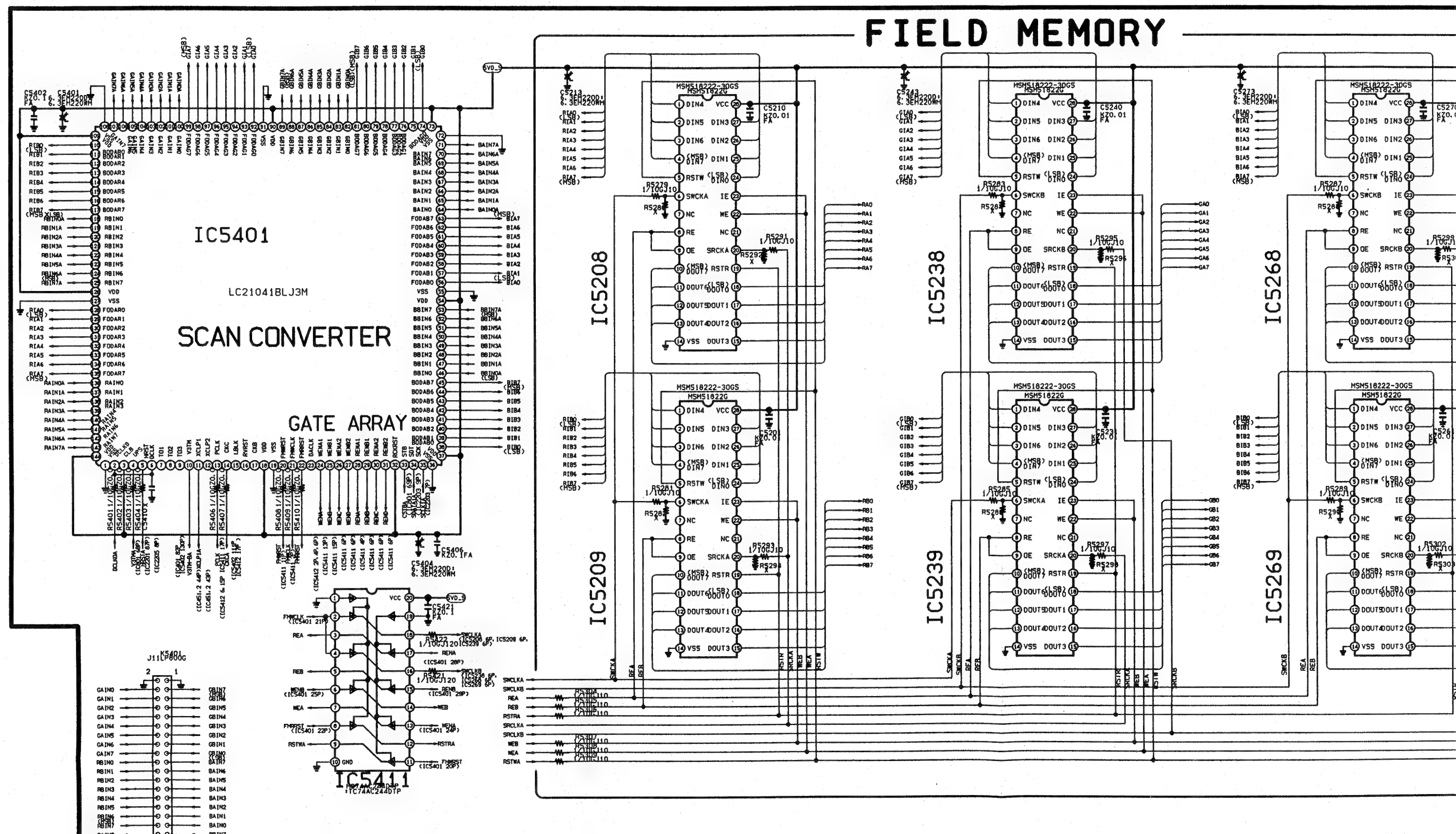




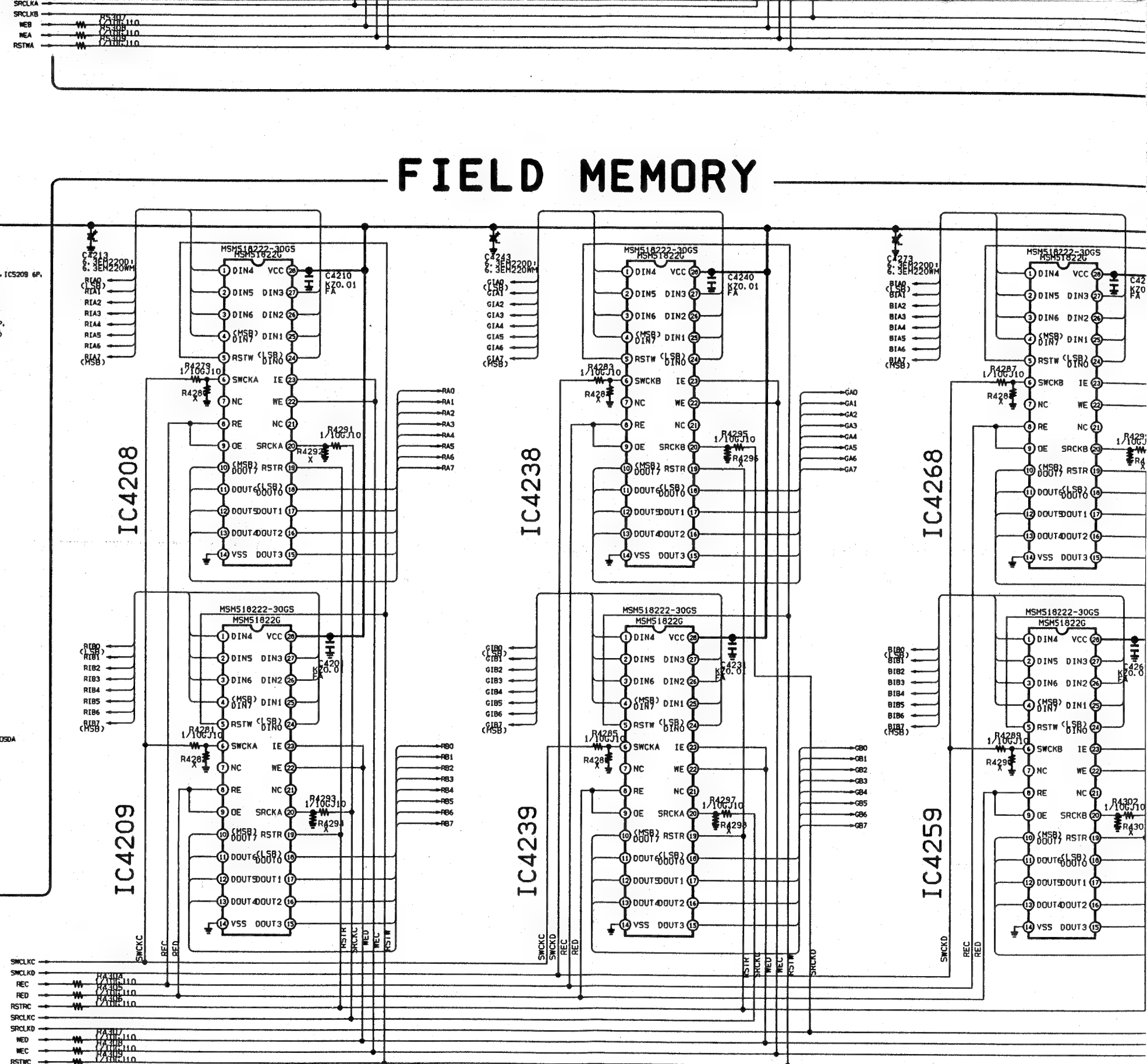
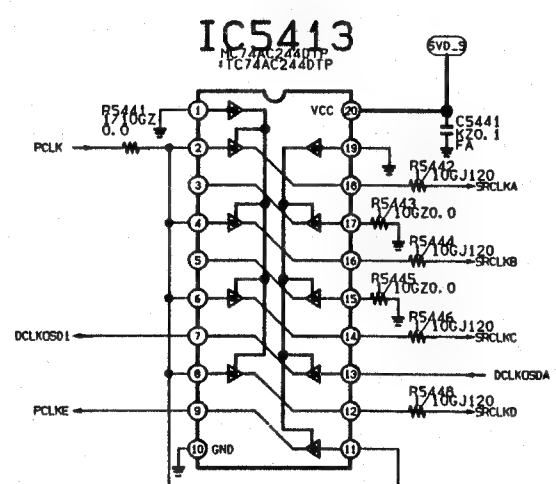




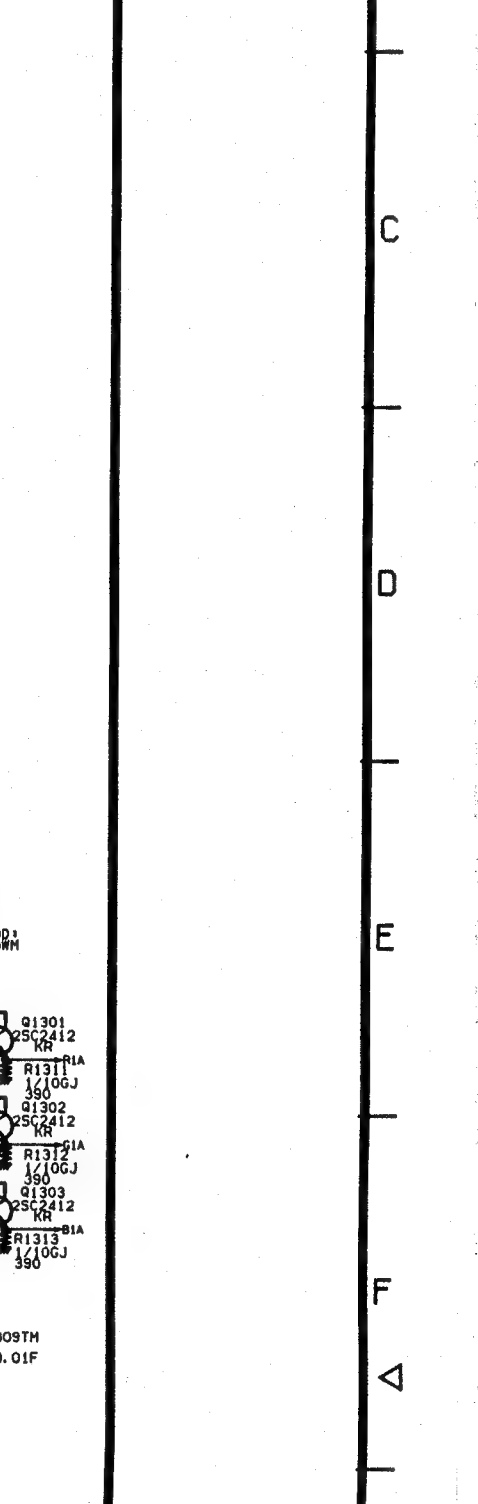
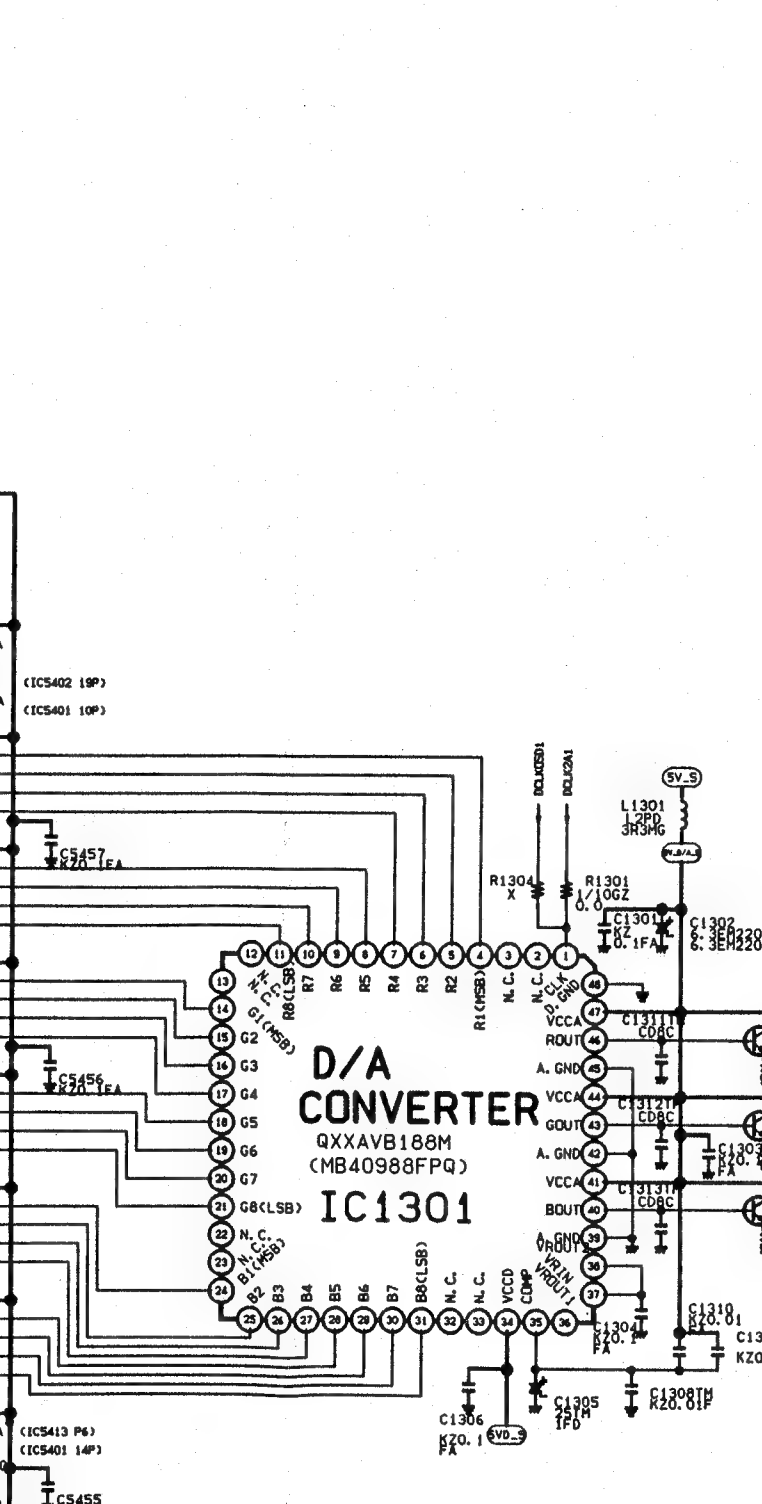
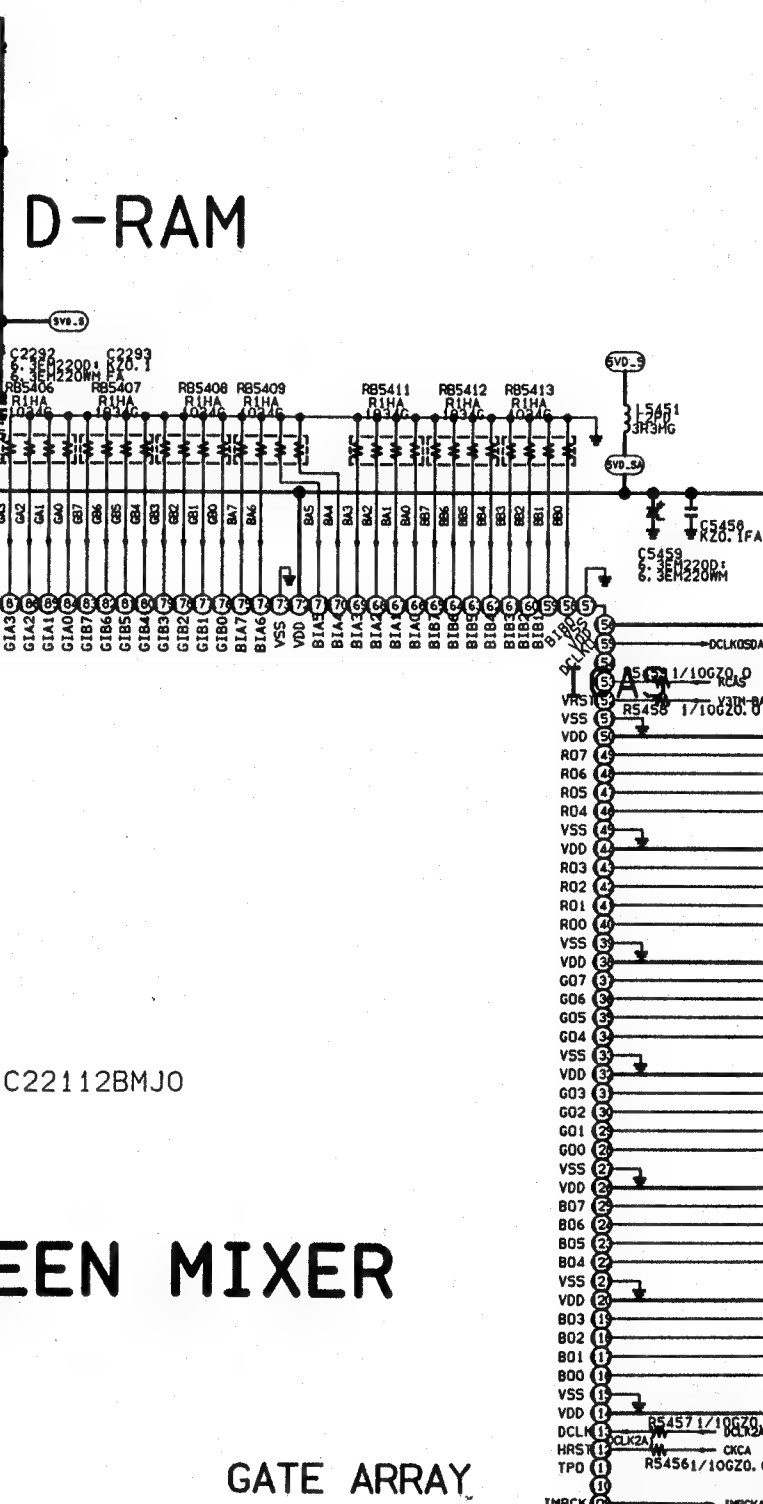
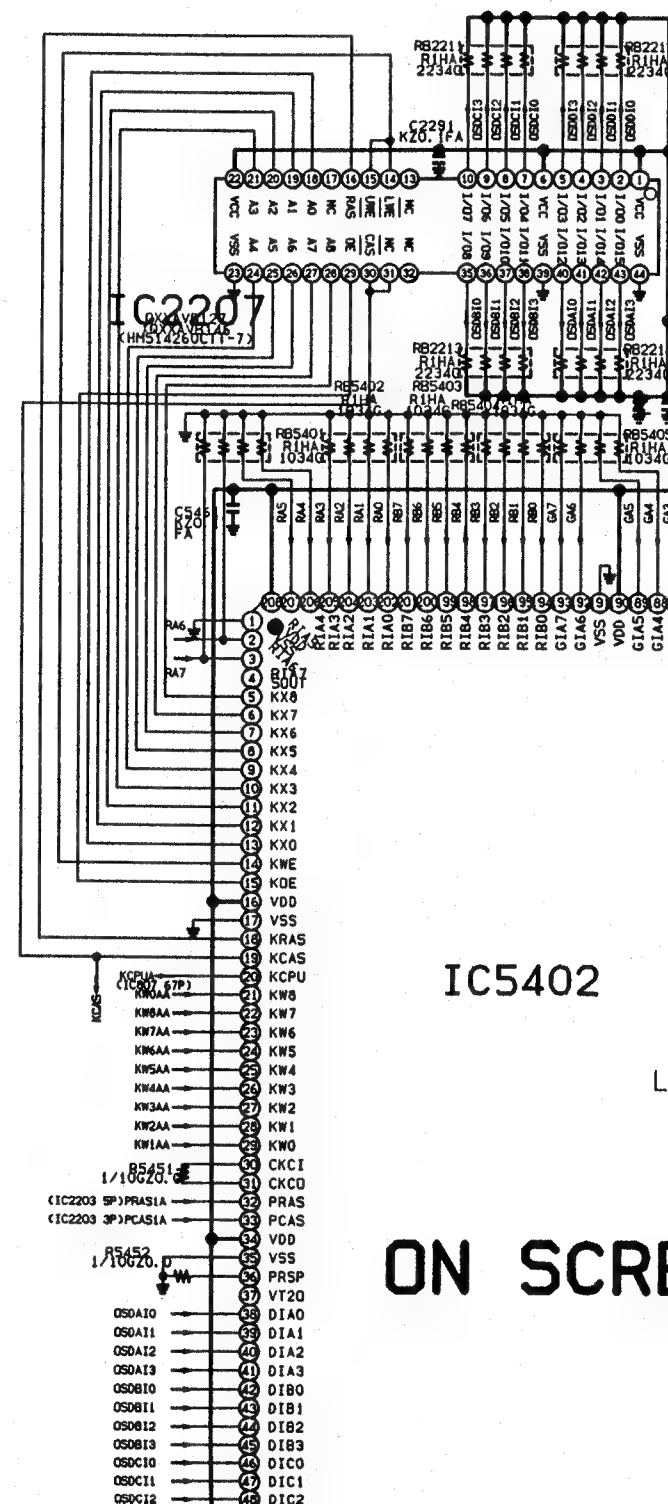
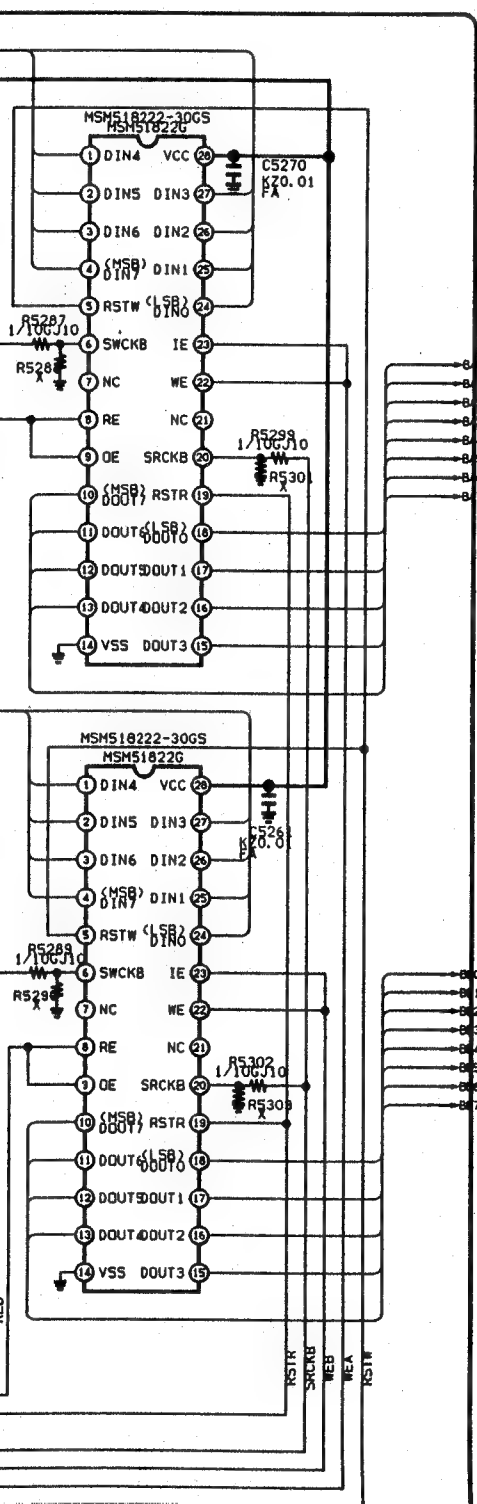
# ASSY MAIN SUB1





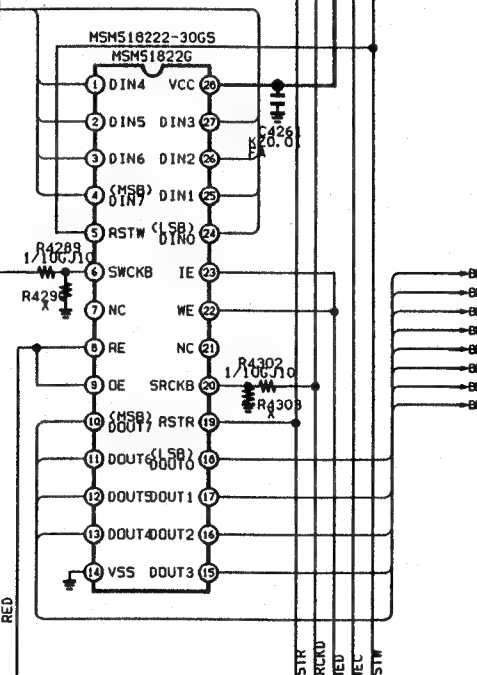
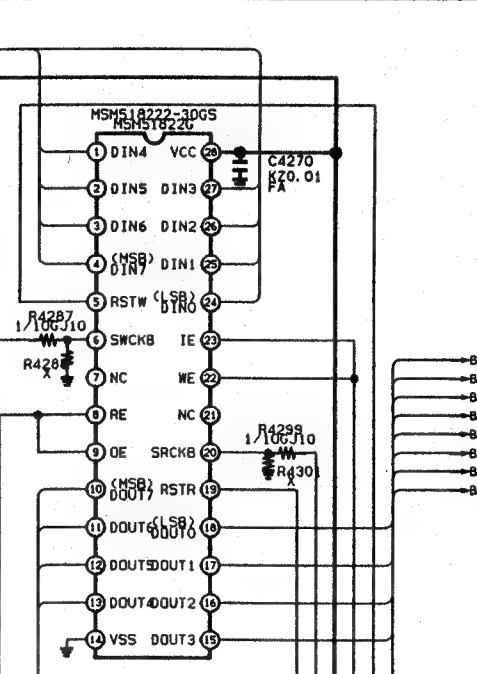
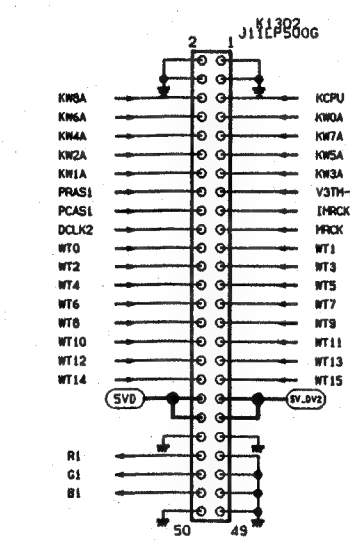
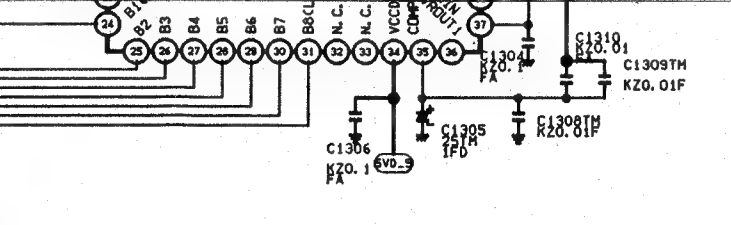
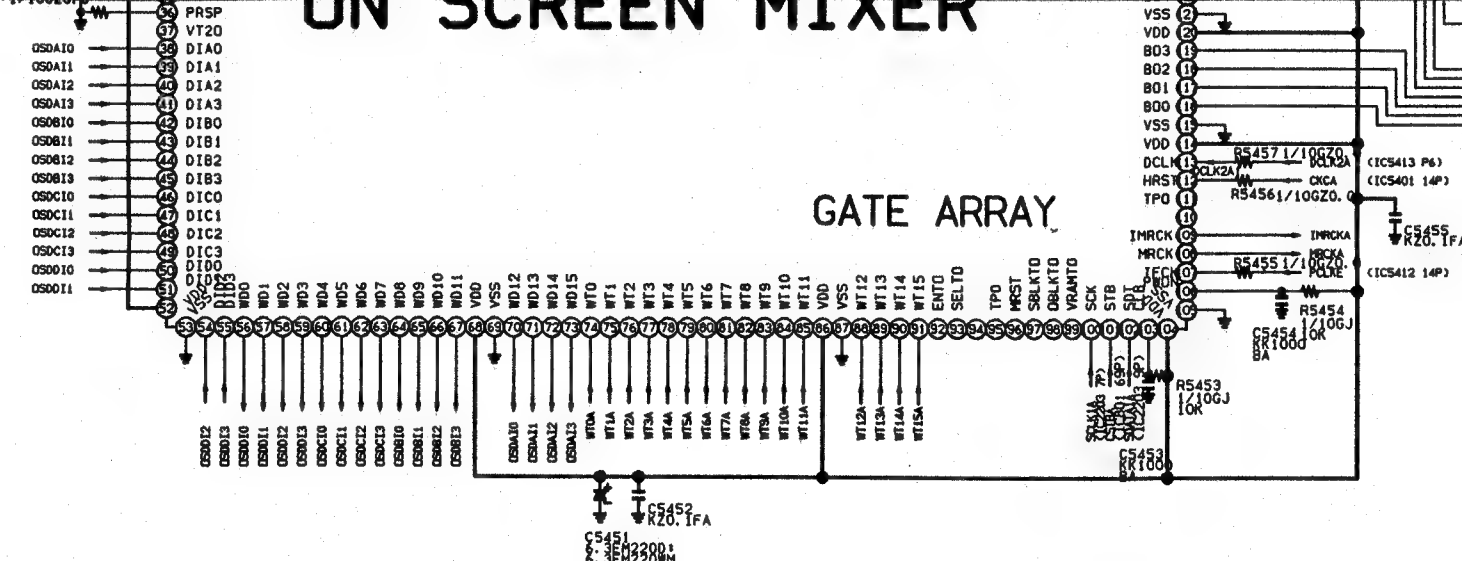
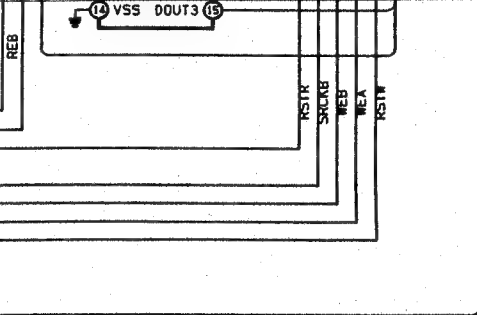




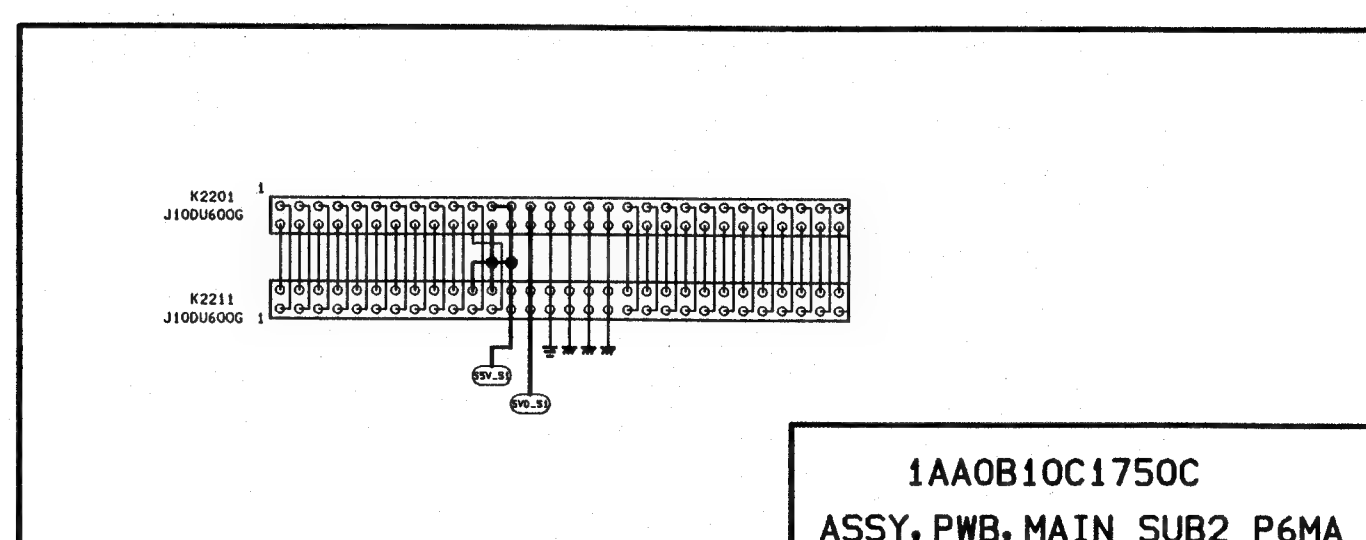


GATE ARRAY

# ON SCREEN MIXER



1AA0B10C1750B  
ASSY, PWB, MAIN SUB1 P6MA



1AA0B10C1750C  
ASSY, PWB, MAIN SUB2 P6MA

# S7

⑦ PLC-9000/9000E/9005E/9005B REVISED  
Reference. NO. SM525052

## ASSY MAIN

R.G.B. VIDEO GAIN ADJ. TP  
PEDESTAL LEVEL ADJ. TP

TP403 2.88V  
TP402 2.84V  
TP401 2.95V

D/A  
CONVERTER

IC1401

IC451

IC401

CXA2111RM

IC501

CXA2112RM

SAMPLE & HOLD

IC1501

CXA2112RM

SAMPLE & HOLD

IC531

CXA2112RM

SAMPLE & HOLD

6.98V  
TP501

TP531 6.98V

B SIG DC ADJ.

G SIG DC





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B SIG DC ADJ. VR

COMMON SENTER  
ADJ. VR

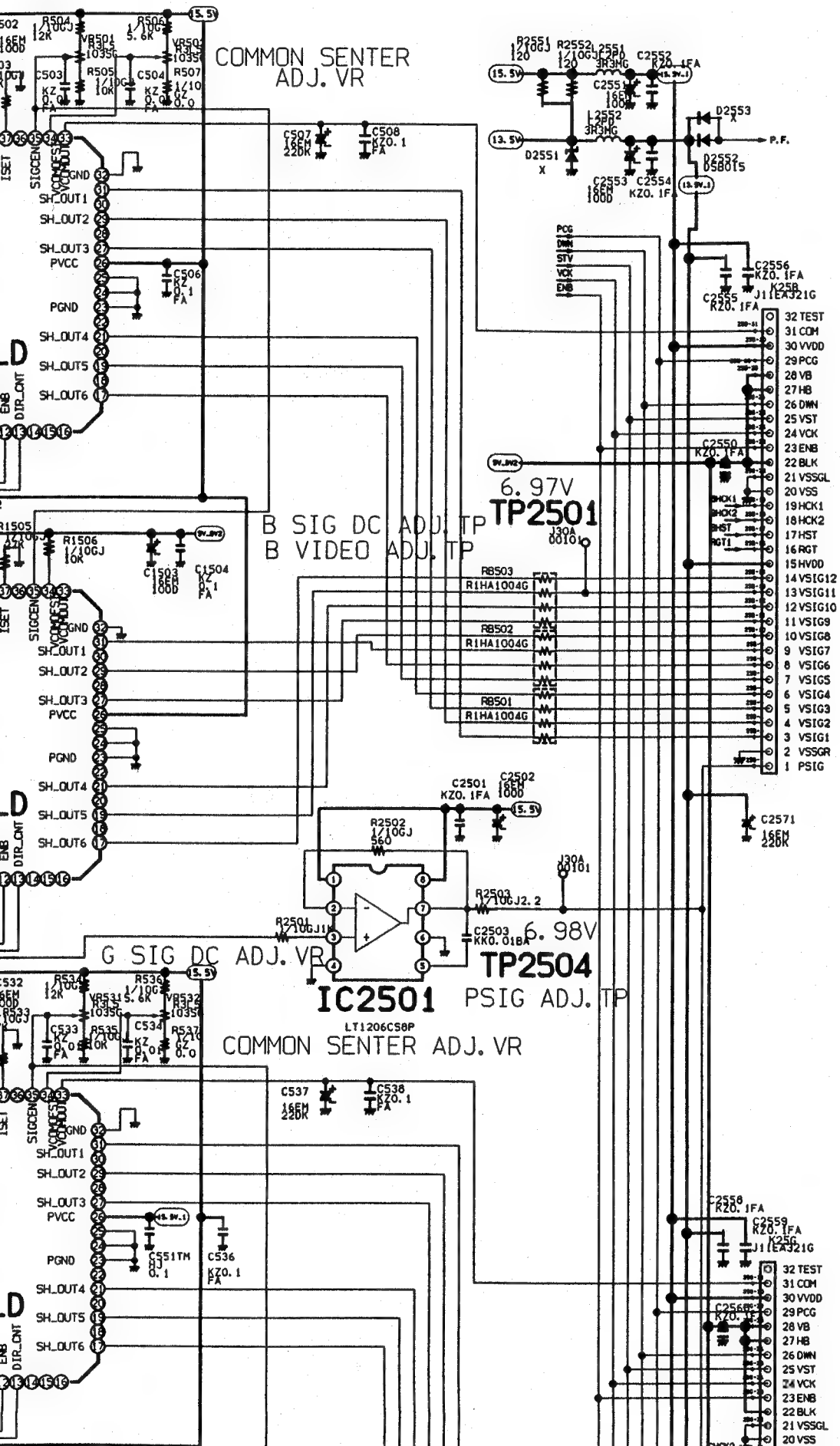
B SIG DC ADJ. TP  
B VIDEO ADJ. TP

G SIG DC ADJ. VR

IC2501 PSIG ADJ. TP

COMMON SENTER ADJ. VR

B PANEL





# S8

## ASSY MAIN

TO\_ASSY\_LED\_K68B  
K8G

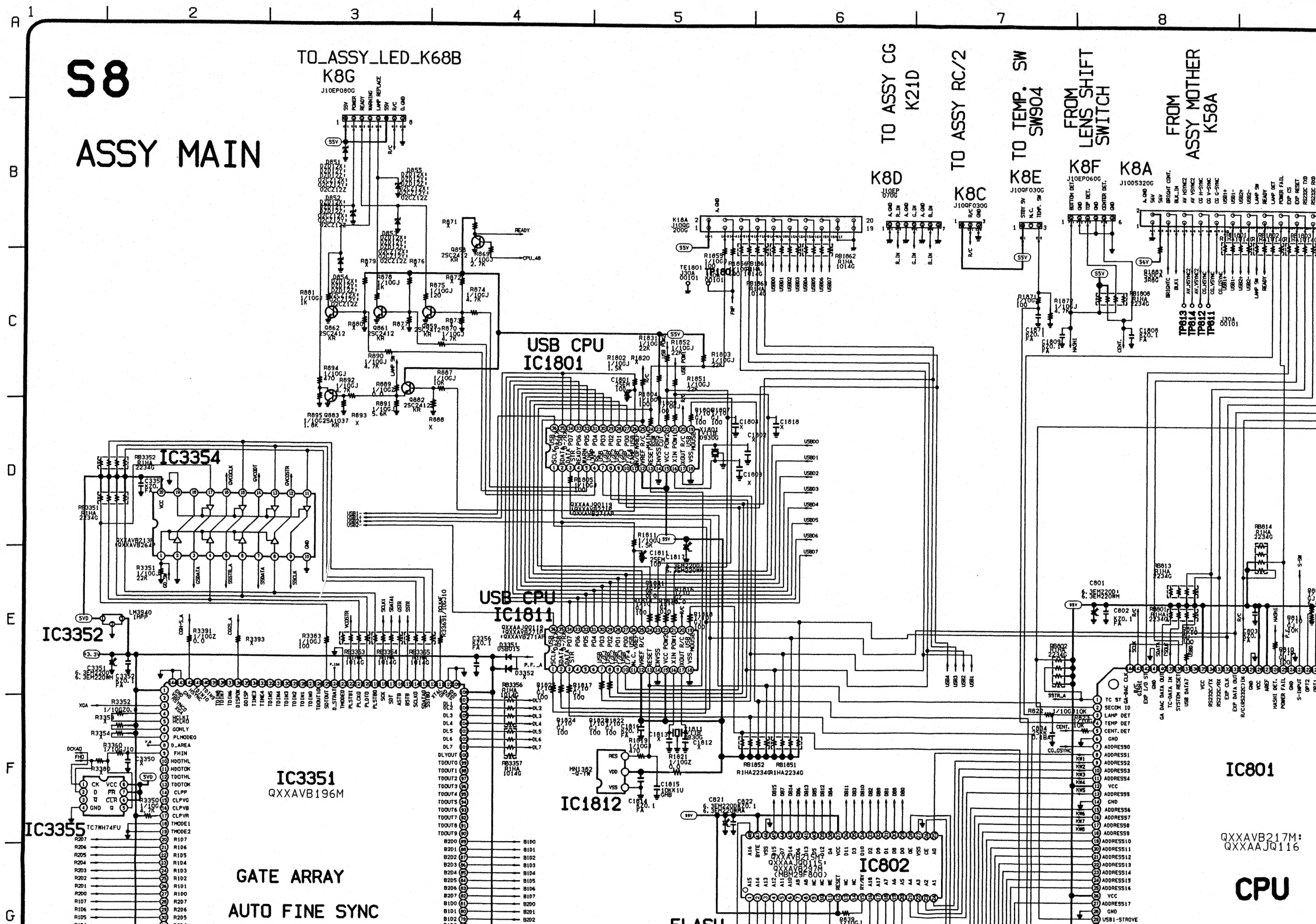
TO ASSY CG  
K21D

TO ASSY RC/2

TO TEMP. SW  
K8E

FROM  
LENS SHIFT  
SWITCH

FROM  
ASSY MOTHER  
K58A



GATE ARRAY

AUTO FINE SYNC

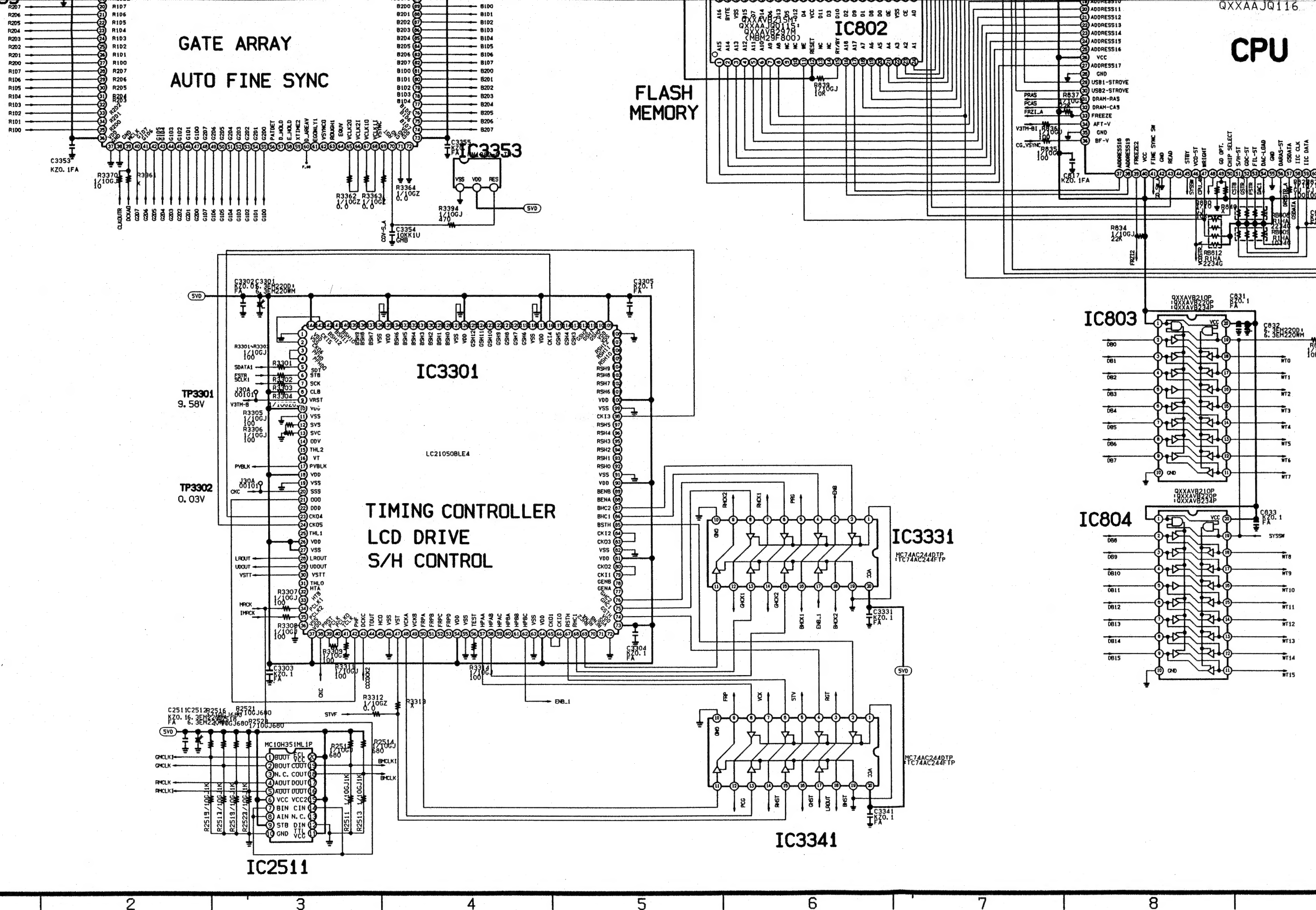
IC801

QXXAVB217M:  
QXXAAJQ116

CPU

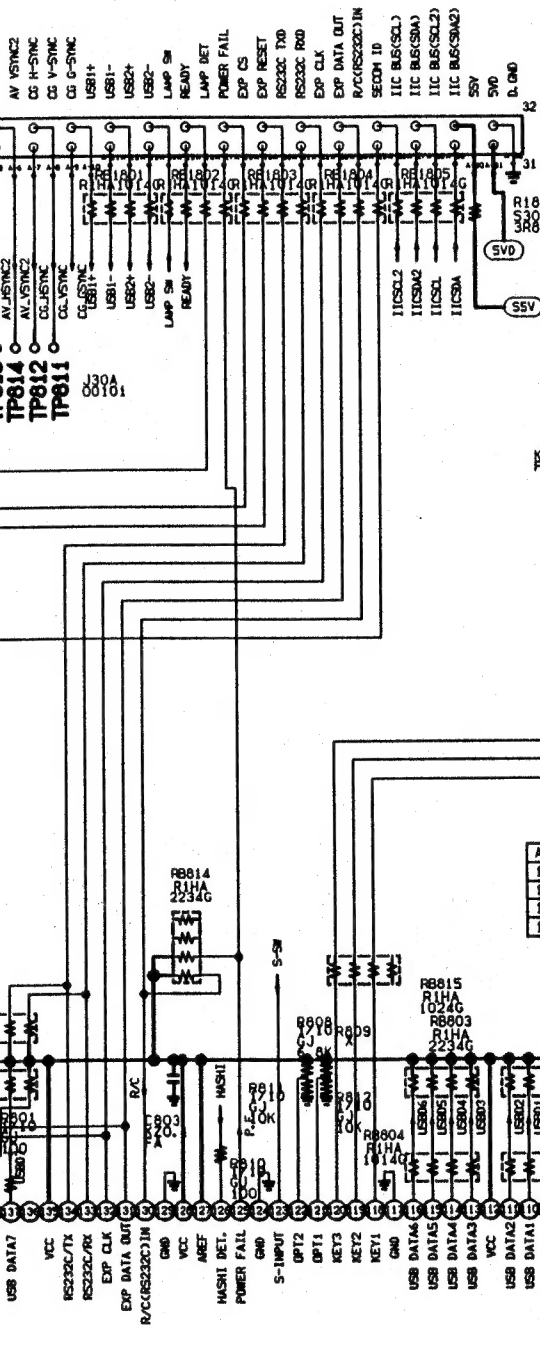
FLASH

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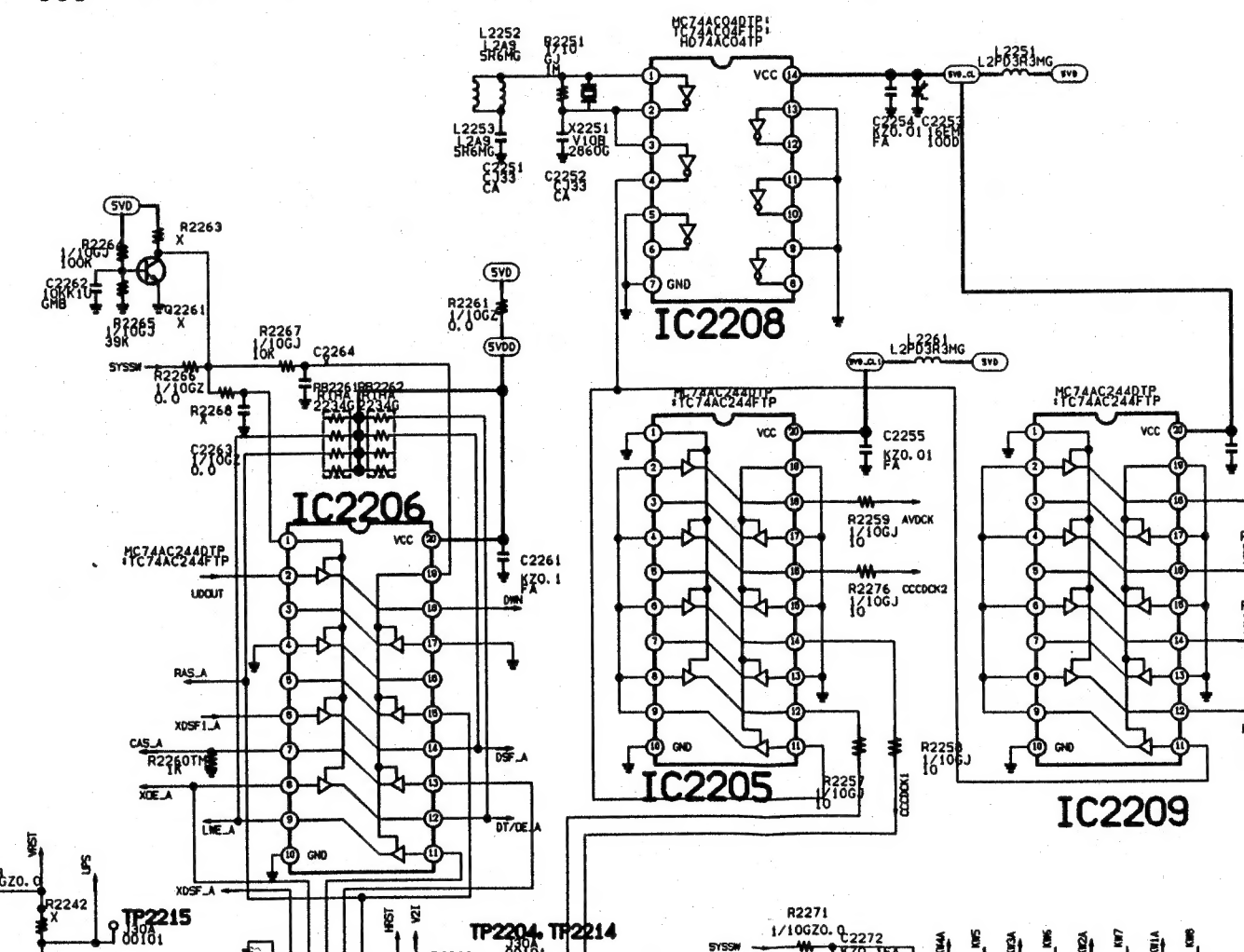
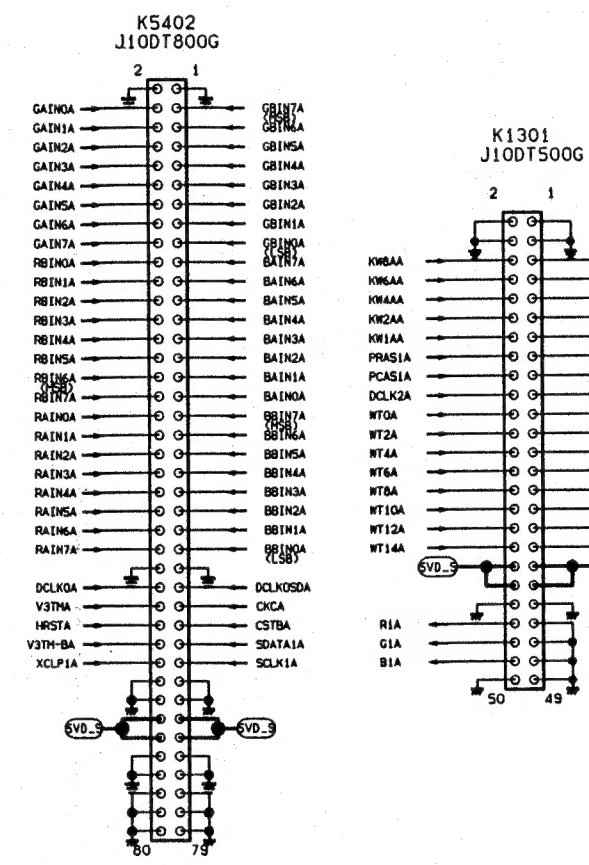
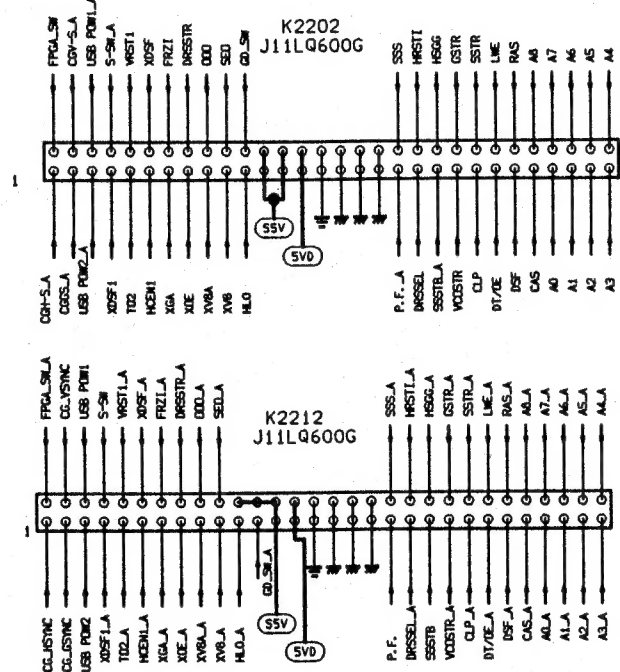
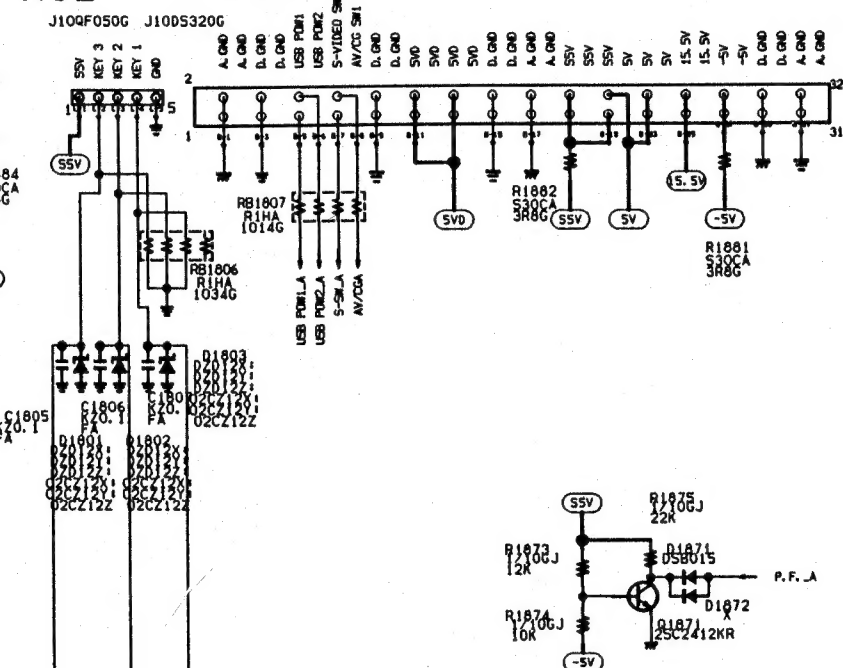
ASSY MOTHER K58A



FROM K8L CONTROL K68A

K8B

FROM ASSY MOTHER K58B



IC801

IC807

IC2206

IC2208

IC2205

IC2209

QXXAVB217M:  
QXXAAJQ116

IC801

QXXAVB217M:  
QXXAAJQ116

CPU

